

cybermax

WE CREATE CREATIVE WORK TO MAKE YOUR BUSINESS FUTURE BRICTER THEN BRIGHTER...

我们努力创造创新 愿与您携手共创辉煌明天!

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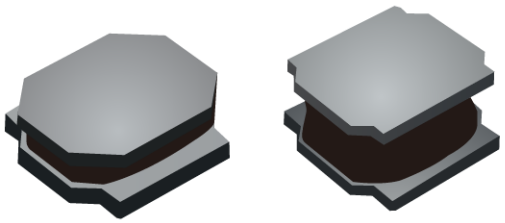
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Wire Wound SMD Power Inductor
CMLW-S Series

◆ Features

1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
2、Metallization on ferrite core results in excellent shock resistance and damage-free durability;
3、Closed magnetic circuit design reduces eakage flux and Electro Magnetic Interference (EMI);
4、30% higher current rating than conventional inductors of equal size;
5、Take up less PCB real estate and save more power.



◆ Applications

1、LED Lighting;
2、Mobile devices with multifunction such as adding color TV and camera;
3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
4、Notebooks, desktop computers, servers, graphic cards;
5、Portable gaming devices, personal navigation systems, personal multimedia devices;
6、Automotive systems;
7、Telecomm base stations.

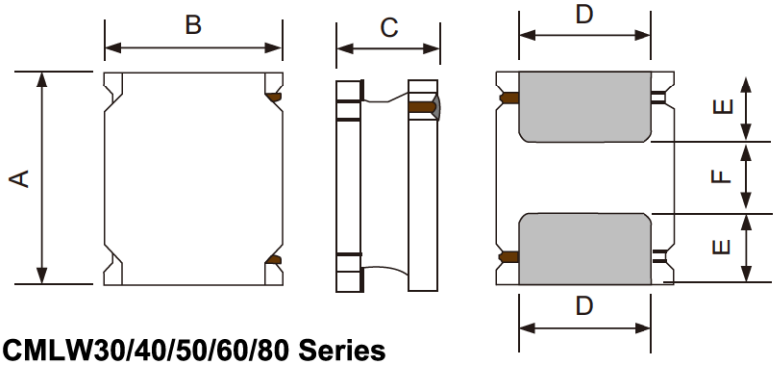
◆ Lead Free Part Numbering

CMLW 4020 S 100 M S T
(1) (2) (3) (4) (5) (6) (7)

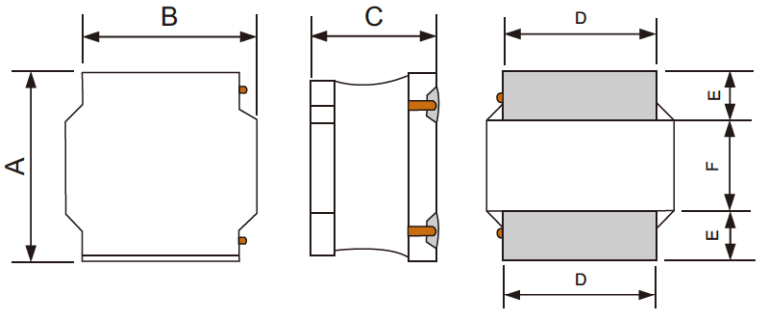
(1) Series Type;
(2) Dimension：L X H;
(3) Material Code;
(4) Inductance：2R2=2.2μH;100=10μH;
101=100μH;
(5) Inductance Tolerance：M=±20%, N=±30%;
(6) Company Code;
(7) Packaging：Tape Carrier Package.

◆ Dimensions

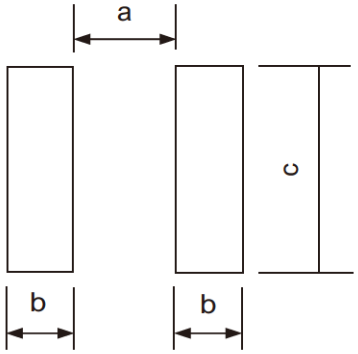
CMLW201610/252010/252012 Series



CMLW30/40/50/60/80 Series



Recommended Land Pattern



Wire Wound SMD Power Inductor
CMLW-S Series

◆ Dimensions

Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
CMLW201610S	2.0±0.2	1.6±0.1	1.0Max.	1.5±0.2	0.60±0.2	0.60±0.2	0.8	0.6	1.6
CMLW252010S	2.5±0.1	2.0±0.1	1.0Max.	1.5±0.2	0.80±0.2	0.80±0.2	0.8	0.85	2.0
CMLW252012S	2.5±0.1	2.0±0.1	1.2Max.	1.5±0.2	0.80±0.2	0.80±0.2	0.8	0.85	2.0
CMLW3010S	3.0±0.2	3.0±0.2	1.0Max.	2.5±0.2	0.75±0.2	1.50±0.2	1.5	0.8	2.7
CMLW3012S	3.0±0.2	3.0±0.2	1.2Max.	2.5±0.2	0.75±0.2	1.50±0.2	1.5	0.8	2.7
CMLW3015S	3.0±0.2	3.0±0.2	1.5Max.	2.5±0.2	0.75±0.2	1.50±0.2	1.5	0.8	2.7
CMLW4010S	4.0±0.2	4.0±0.2	1.0Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7
CMLW4012S	4.0±0.2	4.0±0.2	1.2Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7
CMLW4018S	4.0±0.2	4.0±0.2	1.8Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7
CMLW4020S	4.0±0.2	4.0±0.2	2.0Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7
CMLW4026S	4.0±0.2	4.0±0.2	2.6Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7
CMLW4030S	4.0±0.2	4.0±0.2	3.0Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7
CMLW5012S	5.0±0.2	5.0±0.2	1.2Max.	4.0±0.2	1.25±0.2	2.50±0.2	2.1	1.5	4.4
CMLW5020S	5.0±0.2	5.0±0.2	2.0Max.	4.0±0.2	1.25±0.2	2.50±0.2	2.1	1.5	4.4
CMLW5040S	5.0±0.2	5.0±0.2	4.0Max.	4.0±0.2	1.25±0.2	2.50±0.2	2.1	1.5	4.4
CMLW6010S	6.0±0.3	6.0±0.3	1.0Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7
CMLW6020S	6.0±0.3	6.0±0.3	2.0Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7
CMLW6028S	6.0±0.3	6.0±0.3	2.8Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7
CMLW6040S	6.0±0.3	6.0±0.3	4.1Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7
CMLW6045S	6.0±0.3	6.0±0.3	4.5Max.	4.9±0.3	1.55±0.3	2.90±0.3	2.8	1.7	5.7
CMLW8040S	8.0±0.3	8.0±0.3	4.2Max.	6.3±0.3	2.00±0.3	4.00±0.3	3.8	2.2	7.5

◆ SPECFICATIONS

Part Number	Inductance @100MHz/1V (μH)	DC Resistance(Ω) DCR±20%	Saturation Current(A) Isat		Heat Rating Current (A) Irms	
			Min.	Typ.	Min.	Typ.
CMLW201610S Series						
CMLW201610SR47NST	0.47±30%	0.044	2.70	3.00	2.35	2.60
CMLW201610SR68NST	0.68±30%	0.062	2.00	2.45	2.05	2.25
CMLW201610S1R0MST	1.0±20%	0.080	1.80	1.95	1.60	1.75
CMLW201610S1R5MST	1.5±20%	0.130	1.46	1.65	1.26	1.40
CMLW201610S2R2MST	2.2±20%	0.145	1.26	1.45	1.20	1.35
CMLW201610S3R3MST	3.3±20%	0.245	0.90	1.05	0.95	1.05
CMLW201610S4R7MST	4.7±20%	0.360	0.77	0.85	0.90	1.00
CMLW201610S6R8MST	6.8±20%	0.500	0.72	0.80	0.55	0.70
CMLW201610S100MST	10±20%	0.720	0.55	0.62	0.45	0.50
CMLW201610S150MST	15±20%	1.400	0.45	0.50	0.36	0.40
CMLW201610S180MST	18±20%	1.800	0.40	0.45	0.34	0.38
CMLW201610S220MST	22±20%	2.000	0.38	0.43	0.27	0.30

Wire Wound SMD Power Inductor
CMLW-S Series

◆ SPECFICATIONS

Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW252010S Series					
CMLW252010SR47NST	0.47±30%	0.054	206	3.75	3.03
CMLW252010SR56NST	0.56±30%	0.060	160	3.20	2.58
CMLW252010SR68NST	0.68±30%	0.072	129	3.08	2.42
CMLW252010S1R0MST	1.0±20%	0.110	100	2.46	1.98
CMLW252010S1R5MST	1.5±20%	0.174	81	2.35	1.60
CMLW252010S2R2MST	2.2±20%	0.199	61	1.79	1.32
CMLW252010S3R3MST	3.3±20%	0.312	47	1.46	1.10
CMLW252010S4R7MST	4.7±20%	0.469	42	1.29	0.88
CMLW252010S5R6MST	5.6±20%	0.469	35	1.11	0.80
CMLW252010S6R8MST	6.8±20%	0.854	31	1.03	0.79
CMLW252010S100MST	10±20%	1.050	27	0.87	0.64
CMLW252012S Series					
CMLW252012SR24NST	0.24±30%	0.036	160	5.40	3.90
CMLW252012SR47MST	0.47±20%	0.045	140	4.51	3.70
CMLW252012SR68MST	0.68±20%	0.079	110	3.84	3.30
CMLW252012S1R0MST	1.0 ±20%	0.092	97	3.36	2.60
CMLW252012S1R5MST	1.5±20%	0.122	69	2.81	2.20
CMLW252012S2R2MST	2.2±20%	0.158	62	2.32	1.85
CMLW252012S3R3MST	3.3±20%	0.216	47	2.02	1.45
CMLW252012S4R7MST	4.7±20%	0.341	38	1.48	1.20
CMLW252012S6R8MST	6.8±20%	0.482	38	1.22	1.00
CMLW252012S100MST	10±20%	0.621	34	1.09	0.75
CMLW252012S150MST	15±20%	0.132	25	0.85	0.60
CMLW252012S220MST	22±20%	1.640	20	0.66	0.50
CMLW3010S Series					
CMLW3010S1R0MST	1.0±20%	0.056	180	1.89	1.81
CMLW3010S1R5MST	1.5±20%	0.068	120	1.71	1.63
CMLW3010S2R2MST	2.2±20%	0.095	100	1.55	1.36
CMLW3010S3R3MST	3.3±20%	0.124	74	1.31	1.20
CMLW3010S4R7MST	4.7±20%	0.193	59	1.03	0.96
CMLW3010S6R8MST	6.8±20%	0.261	42	0.89	0.83
CMLW3010S100MST	10±20%	0.342	39	0.78	0.73
CMLW3010S120MST	12±20%	0.432	36	0.69	0.65

Wire Wound SMD Power Inductor
CMLW-S Series

◆ SPECFICATIONS

Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW3010S Series					
CMLW3010S150MST	15±20%	0.522	30	0.61	0.59
CMLW3010S220MST	22±20%	0.796	28	0.48	0.48
CMLW3010S330MST	33±20%	1.326	18	0.39	0.38
CMLW3010S390MST	39±20%	1.497	18	0.38	0.35
CMLW3010S470MST	47±20%	1.668	18	0.30	0.33
CMLW3010S510MST	51±20%	1.881	18	0.29	0.31
CMLW3010S560MST	56±20%	1.984	16	0.29	0.30
CMLW3012S Series					
CMLW3012SR47NST	0.47±30%	0.036	180	2.50	2.84
CMLW3012S1R0MST	1.0±20%	0.040	120	2.25	2.53
CMLW3012S1R5MST	1.5±20%	0.045	110	1.96	2.31
CMLW3012S1R8MST	1.8±20%	0.049	90	1.83	2.12
CMLW3012S2R2MST	2.2±20%	0.067	84	1.45	1.78
CMLW3012S3R3MST	3.3±20%	0.089	64	1.27	1.56
CMLW3012S4R7MST	4.7±20%	0.107	61	1.09	1.43
CMLW3012S6R8MST	6.8±20%	0.169	61	0.91	1.13
CMLW3012S100MST	10±20%	0.236	42	0.72	0.95
CMLW3012S120MST	12±20%	0.307	32	0.58	0.84
CMLW3012S150MST	15±20%	0.320	27	0.54	0.82
CMLW3012S180MST	18±20%	0.485	25	0.52	0.67
CMLW3012S220MST	22±20%	0.574	23	0.51	0.61
CMLW3012S270MST	27±20%	0.685	21	0.48	0.56
CMLW3012S330MST	33±20%	0.779	18	0.44	0.53
CMLW3012S360MST	36±20%	0.846	18	0.41	0.51
CMLW3012S390MST	39±20%	1.184	18	0.37	0.43
CMLW3012S470MST	47±20%	1.228	14	0.32	0.41
CMLW3012S560MST	56±20%	1.228	14	0.31	0.41
CMLW3012S620MST	62±20%	1.362	12	0.30	0.40
CMLW3012S680MST	68±20%	1.486	12	0.29	0.38
CMLW3012S820MST	82±20%	2.261	12	0.26	0.31
CMLW3012S101MST	100±20%	2.545	12	0.25	0.29

Wire Wound SMD Power Inductor
CMLW-S Series

◆ SPECFICATIONS

Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW3015S Series					
CMLW3015S1R0MST	1.0±20%	0.033	150	2.73	2.35
CMLW3015S1R5MST	1.2±20%	0.045	100	2.73	1.90
CMLW3015S2R2MST	2.2±20%	0.054	86	1.90	1.79
CMLW3015S2R7MST	2.7±20%	0.068	64	1.80	1.60
CMLW3015S3R3MST	3.3±20%	0.072	68	1.62	1.52
CMLW3015S4R7MST	4.7±20%	0.113	46	1.31	1.22
CMLW3015S5R1MST	5.1±20%	0.113	49	1.28	1.22
CMLW3015S6R2MST	6.2±20%	0.176	46	1.19	0.96
CMLW3015S6R8MST	6.8±20%	0.180	39	1.03	0.95
CMLW3015S100MST	10±20%	0.225	41	0.97	0.86
CMLW3015S120MST	12±20%	0.288	32	0.83	0.76
CMLW3015S150MST	15±20%	0.315	30	0.78	0.73
CMLW3015S180MST	18±20%	0.387	23	0.66	0.66
CMLW3015S220MST	22±20%	0.414	23	0.62	0.64
CMLW3015S330MST	33±20%	0.738	20	0.53	0.48
CMLW3015S390MST	39±20%	0.896	14	0.48	0.44
CMLW3015S470MST	47±20%	1.125	14	0.41	0.39
CMLW3015S560MST	56±20%	1.152	13	0.39	0.38
CMLW3015S101MST	100±20%	2.250	10	0.21	0.21
CMLW4010S Series					
CMLW4010S1R0MST	1.0±20%	0.056	116	2.40	2.10
CMLW4010S1R5MST	1.5±20%	0.070	94	2.08	1.80
CMLW4010S2R2MST	2.2±20%	0.085	73	1.80	1.60
CMLW4010S3R3MST	3.3±20%	0.100	58	1.40	1.30
CMLW4010S4R7MST	4.7±20%	0.140	47	1.30	1.20
CMLW4010S6R8MST	6.8±20%	0.200	38	1.00	1.00
CMLW4010S100MST	10±20%	0.300	31	0.80	0.80
CMLW4010S150MST	15±20%	0.430	24	0.65	0.65
CMLW4010S220MST	22±20%	0.570	19	0.45	0.45
CMLW4012S Series					
CMLW4012SR82NST	0.82±30%	0.050	150	3.53	1.65
CMLW4012S1R0MST	1.0±20%	0.050	120	2.61	1.65
CMLW4012S1R5MST	1.5±20%	0.065	90	2.10	1.46

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW4012S Series					
CMLW4012S2R2MST	2.2±20%	0.080	74	1.76	1.32
CMLW4012S3R3MST	3.3±20%	0.113	60	1.40	1.12
CMLW4012S4R7MST	4.7±20%	0.125	50	1.20	1.05
CMLW4012S6R8MST	6.8±20%	0.198	40	0.95	0.84
CMLW4012S100MST	10±20%	0.265	33	0.80	0.77
CMLW4012S120MST	12±20%	0.290	32	0.66	0.70
CMLW4012S150MST	15±20%	0.340	25	0.56	0.64
CMLW4012S180MST	18±20%	0.470	23	0.55	0.55
CMLW4012S220MST	22±20%	0.470	20	0.54	0.55
CMLW4012S270MST	27±20%	0.720	18	0.50	0.45
CMLW4012S330MST	33±20%	0.810	17	0.42	0.42
CMLW4012S360MST	36±20%	0.900	14	0.40	0.40
CMLW4012S390MST	39±20%	1.100	16	0.55	0.37
CMLW4012S470MST	47±20%	1.100	12	0.35	0.37
CMLW4012S560MST	56±20%	1.250	11	0.33	0.33
CMLW4012S680MST	68±20%	1.460	11	0.30	0.31
CMLW4012S820MST	82±20%	2.140	11	0.28	0.26
CMLW4012S101MST	100±20%	2.210	9.4	0.25	0.25
CMLW4015S Series					
CMLW4015S1R0MST	1.0±20%	0.028	90	3.80	2.00
CMLW4015S1R5MST	1.5±20%	0.056	88	2.80	2.70
CMLW4015S2R2MST	2.2±20%	0.088	74	2.60	2.60
CMLW4015S3R3MST	3.3±20%	0.099	71	2.20	2.20
CMLW4015S4R7MST	4.7±20%	0.136	60	2.00	2.00
CMLW4015S6R8MST	6.8±20%	0.204	57	1.60	1.60
CMLW4015S100MST	10±20%	0.221	54	1.10	1.10
CMLW4015S150MST	15±20%	0.367	50	0.94	0.94
CMLW4015S220MST	22±20%	0.449	50	0.80	0.80
CMLW4018S Series					
CMLW4018S1R0NST	1.0±30%	0.025	80	4.80	2.00
CMLW4018S1R5MST	1.5±20%	0.030	65	3.35	1.80
CMLW4018S2R2MST	2.2±20%	0.045	52	3.00	1.65
CMLW4018S3R3MST	3.3±20%	0.070	44	2.45	1.23

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW4018S Series					
CMLW4018S4R7MST	4.7±20%	0.090	34	2.00	1.20
CMLW4018S5R6MST	5.6±20%	0.105	32	1.65	1.10
CMLW4018S6R8MST	6.8±20%	0.110	29	1.45	1.06
CMLW4018S100MST	10±20%	0.180	24	1.30	0.84
CMLW4018S150MST	15±20%	0.250	19	0.94	0.65
CMLW4018S220MST	22±20%	0.360	16	0.80	0.59
CMLW4018S330MST	33±20%	0.530	12	0.65	0.49
CMLW4018S470MST	47±20%	0.650	10	0.57	0.42
CMLW4018S680MST	68±20%	1.000	8.3	0.47	0.32
CMLW4018S101MST	100±20%	1.750	6.5	0.40	0.25
CMLW4018S151MST	150±20%	2.500	5.5	0.31	0.22
CMLW4018S221MST	220±20%	4.000	4	0.27	0.17
CMLW4020S Series					
CMLW4020S1R0MST	1.0±20%	0.029	75	4.85	2.15
CMLW4020S1R5MST	1.5±20%	0.035	71	4.45	1.98
CMLW4020S2R2MST	2.2±20%	0.040	49	3.40	1.85
CMLW4020S3R3MST	3.3±20%	0.070	44	3.20	1.40
CMLW4020S4R7MST	4.7±20%	0.075	42	2.35	1.34
CMLW4020S5R1MST	5.1±20%	0.085	42	2.30	1.27
CMLW4020S5R6MST	5.6±20%	0.090	30	2.20	1.22
CMLW4020S6R2MST	6.2±20%	0.115	36	2.15	1.08
CMLW4020S6R8MST	6.8±20%	0.125	33	2.20	1.04
CMLW4020S100MST	10±20%	0.165	26	1.60	0.90
CMLW4020S120MST	12±20%	0.175	26	1.50	0.88
CMLW4020S150MST	15±20%	0.230	24	1.35	0.77
CMLW4020S220MST	22±20%	0.350	15	1.05	0.62
CMLW4020S330MST	33±20%	0.550	11	0.85	0.49
CMLW4020S390MST	39±20%	0.650	11	0.82	0.46
CMLW4020S470MST	47±20%	0.710	10	0.74	0.44
CMLW4020S680MST	68±20%	1.060	7.7	0.61	0.36
CMLW4020S820MST	82±20%	1.170	7.2	0.56	0.34
CMLW4020S101MST	100±20%	1.350	6.3	0.52	0.31

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW4026S Series					
CMLW4026S1R2NST	1.2±30%	0.030	120	3.10	2.30
CMLW4026S1R5NST	1.5±30%	0.030	100	2.40	2.30
CMLW4026S2R2MST	2.2±20%	0.040	96	2.10	2.00
CMLW4026S3R3MST	3.3±20%	0.050	58	1.80	1.70
CMLW4026S4R7MST	4.7±20%	0.055	46	1.45	1.60
CMLW4026S6R8MST	6.8±20%	0.065	33	1.30	1.50
CMLW4026S100MST	10±20%	0.085	26	1.00	1.30
CMLW4026S150MST	15±20%	0.110	19	0.90	1.10
CMLW4026S220MST	22±20%	0.165	13	0.60	0.90
CMLW4026S330MST	33±20%	0.270	9	0.55	0.70
CMLW4026S470MST	47±20%	0.300	6	0.40	0.65
CMLW4030S Series					
CMLW4030SR68NST	0.68±30%	0.010	130	6.80	4.56
CMLW4030S1R0MST	1.0±20%	0.014	70	5.26	4.15
CMLW4030S1R5MST	1.5±20%	0.020	62	5.14	3.34
CMLW4030S2R2MST	2.2±20%	0.030	52	4.90	2.95
CMLW4030S3R3MST	3.3±20%	0.040	38	3.30	2.40
CMLW4030S4R7MST	4.7±20%	0.060	31	2.90	2.00
CMLW4030S5R6MST	5.6±20%	0.065	30	2.60	1.95
CMLW4030S6R8MST	6.8±20%	0.090	24	2.75	1.60
CMLW4030S100MST	10±20%	0.100	21	1.95	1.50
CMLW4030S150MST	15±20%	0.190	16	1.65	1.11
CMLW4030S220MST	22±20%	0.225	10	1.30	1.00
CMLW4030S330MST	33±20%	0.330	10	1.10	0.84
CMLW4030S470MST	47±20%	0.445	8.4	0.95	0.72
CMLW4030S560MST	56±20%	0.555	8.4	0.85	0.65
CMLW4030S680MST	68±20%	0.868	7	0.72	0.52
CMLW4030S820MST	82±20%	1.060	5.6	0.66	0.47
CMLW4030S101MST	100±20%	1.150	5.6	0.60	0.45
CMLW4030S471MST	470±20%	7.200	2	0.30	0.20
CMLW4030S681MST	680±20%	7.580	1.2	0.19	0.14

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW5012S Series					
CMLW5012S1R0MST	1.0±20%	0.057	103	4.40	2.90
CMLW5012S1R5MST	1.5±20%	0.072	68	3.70	2.50
CMLW5012S2R2MST	2.2±20%	0.085	50	3.10	2.10
CMLW5012S3R3MST	3.3±20%	0.126	34	2.40	1.80
CMLW5012S4R7MST	4.7±20%	0.164	31	2.20	1.65
CMLW5012S6R8MST	6.8±20%	0.245	22	1.70	1.30
CMLW5012S100MST	10±20%	0.344	17	1.40	1.10
CMLW5012S150MST	15±20%	0.436	13	1.20	0.90
CMLW5020S Series					
CMLW5020SR47NST	0.47±30%	0.013	160	6.15	4.60
CMLW5020SR68NST	0.68±30%	0.017	120	5.50	4.00
CMLW5020S1R0MST	1.0±20%	0.020	97	4.33	3.70
CMLW5020S1R5MST	1.5±20%	0.026	80	3.85	3.20
CMLW5020S2R2MST	2.2±20%	0.035	61	3.85	2.90
CMLW5020S3R3MST	3.3±20%	0.044	46	3.25	2.40
CMLW5020S4R7MST	4.7±20%	0.057	33	2.50	2.25
CMLW5020S5R6MST	5.6±20%	0.064	33	2.30	2.05
CMLW5020S6R8MST	6.8±20%	0.087	30	1.80	1.70
CMLW5020S100MST	10±20%	0.110	24	1.79	1.50
CMLW5020S150MST	15±20%	0.165	20	1.44	1.25
CMLW5020S220MST	22±20%	0.235	16	1.18	1.05
CMLW5020S330MST	33±20%	0.370	13	0.97	0.83
CMLW5020S470MST	47±20%	0.525	11	0.81	0.70
CMLW5020S680MST	68±20%	0.885	8.8	0.70	0.53
CMLW5020S101MST	100±20%	1.060	7.6	0.57	0.49
CMLW5040S Series					
CMLW5040S1R0MST	1.0±20%	0.012	117	7.35	4.90
CMLW5040S1R5MST	1.5±20%	0.013	86	7.30	4.45
CMLW5040S2R2MST	2.2±20%	0.017	42	6.50	3.95
CMLW5040S3R3MST	3.3±20%	0.025	32	5.10	3.40
CMLW5040S4R7MST	4.7±20%	0.029	28	4.40	3.10
CMLW5040S6R8MST	6.8±20%	0.043	21	3.80	2.40
CMLW5040S100MST	10±20%	0.055	18	2.90	2.10

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW5040S Series					
CMLW5040S150MST	15±20%	0.089	13	2.30	1.60
CMLW5040S220MST	22±20%	0.126	9	1.90	1.40
CMLW5040S330MST	33±20%	0.192	7	1.60	1.20
CMLW5040S470MST	47±20%	0.283	6	1.30	0.94
CMLW6010S Series					
CMLW6010S2R2MST	2.2±20%	0.119	61	2.600	2.000
CMLW6010S3R3MST	3.3±20%	0.174	56	2.000	1.700
CMLW6010S4R7MST	4.7±20%	0.217	51	1.750	1.450
CMLW6010S6R8MST	6.8±20%	0.298	46	1.200	1.220
CMLW6010S100MST	10±20%	0.357	44	1.100	1.200
CMLW6010S150MST	15±20%	0.570	41	0.900	0.800
CMLW6010S220MST	22±20%	0.884	36	0.700	0.600
CMLW6012S Series					
CMLW6012S1R0MST	1.0±30%	0.087	61	3.50	2.50
CMLW6012S2R2NST	2.2±30%	0.102	61	2.60	2.10
CMLW 6012S3R3NST	3.3±30%	0.139	56	2.30	1.90
CMLW6012S4R7MST	4.7±20%	0.187	51	1.85	1.50
CMLW6012S6R8MST	6.8±20%	0.221	46	1.60	1.20
CMLW6012S100MST	10±20%	0.366	44	1.40	1.10
CMLW6012S150MST	15±20%	0.560	41	1.00	0.65
CMLW6012S220MST	22±20%	0.867	36	0.80	0.60
CMLW6020S Series					
CMLW6020SR68NST	0.68±30%	0.017	120	7.50	3.80
CMLW6020S1R0MST	1.0±20%	0.020	94	4.15	3.25
CMLW6020S1R5MST	1.5±20%	0.022	79	4.25	3.20
CMLW6020S2R2MST	2.2±20%	0.028	61	3.75	2.75
CMLW6020S3R3MST	3.3±20%	0.035	51	3.15	2.60
CMLW6020S4R7MST	4.7±20%	0.058	41	3.00	2.00
CMLW6020S5R6MST	5.6±20%	0.058	36	2.40	1.90
CMLW6020S6R8MST	6.8±20%	0.079	31	2.20	1.80
CMLW6020S8R2MST	8.2±20%	0.105	28	2.10	1.40
CMLW6020S100MST	10±20%	0.105	27	1.75	1.40
CMLW6020S150MST	15±20%	0.145	21	1.50	1.20

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW6020S Series					
CMLW6020S220MST	22±20%	0.204	16	1.25	1.00
CMLW6028S Series					
CMLW6028S1R0MST	1.0±20%	0.010	70	6.00	5.20
CMLW6028S1R5MST	1.5±20%	0.013	65	6.00	4.58
CMLW6028S2R2MST	2.2±20%	0.015	56	5.10	4.09
CMLW6028S3R3MST	3.3±20%	0.025	41	3.63	3.48
CMLW6028S4R7MST	4.7±20%	0.030	35	3.00	3.08
CMLW6028S6R8MST	6.8±20%	0.047	27	2.85	2.40
CMLW6028S8R2MST	8.2±20%	0.055	24	2.60	2.25
CMLW6028S100MST	10±20%	0.072	23	2.04	1.95
CMLW6028S120MST	12±20%	0.080	18	1.80	1.85
CMLW6028S150MST	15±20%	0.125	18	1.75	1.45
CMLW6028S180MST	18±20%	0.120	15	1.52	1.45
CMLW6028S220MST	22±20%	0.140	14	1.60	1.40
CMLW6028S270MST	27±20%	0.155	13	1.50	1.32
CMLW6028S330MST	33±20%	0.185	12	1.35	1.22
CMLW6028S390MST	39±20%	0.225	11	1.25	1.10
CMLW6028S470MST	47±20%	0.245	9.5	1.15	1.06
CMLW6028S620MST	62±20%	0.345	7.7	0.95	0.89
CMLW6028S680MST	68±20%	0.360	7.7	0.95	0.86
CMLW6028S750MST	75±20%	0.410	7.7	0.90	0.81
CMLW6028S820MST	82±20%	0.445	7.7	0.90	0.78
CMLW6028S101MST	100±20%	0.500	7.1	0.65	0.70
CMLW6040S Series					
CMLW6040S1R0MST	1.0±20%	0.011	100	9.65	5.04
CMLW6040S1R5MST	1.5±20%	0.012	65	8.60	4.85
CMLW6040S2R2MST	2.2±20%	0.014	52	6.55	4.50
CMLW6040S3R3MST	3.3±20%	0.021	32	5.70	3.60
CMLW6040S4R7MST	4.7±20%	0.026	24	4.80	3.25
CMLW6040S6R8MST	6.8±20%	0.031	20	3.70	2.90
CMLW6040S100MST	10±20%	0.048	15	3.00	2.35
CMLW6040S150MST	15±20%	0.068	12	2.30	1.95
CMLW6040S220MST	22±20%	0.089	10	1.85	1.70

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW6040S Series					
CMLW6040S330MST	33±20%	0.137	7.8	1.45	1.35
CMLW6040S470MST	47±20%	0.200	6.4	1.20	1.10
CMLW6040S560MST	56±20%	0.221	6.4	1.10	1.00
CMLW6040S680MST	68±20%	0.289	6.4	1.00	0.90
CMLW6040S820MST	82±20%	0.341	4.9	0.85	0.80
CMLW6040S101MST	100±20%	0.433	4.2	0.75	0.70
CMLW6045S Series					
CMLW6045SR82NST	0.82±30%	0.008	140	10.40	5.90
CMLW6045S1R0MST	1.0±20%	0.011	100	9.85	5.14
CMLW6045S1R5MST	1.5±20%	0.012	65	8.80	4.95
CMLW6045S1R8MST	1.8±20%	0.012	74	7.60	4.95
CMLW6045S2R2MST	2.2±20%	0.014	52	6.75	4.60
CMLW6045S3R3MST	3.3±20%	0.021	32	5.90	3.70
CMLW6045S3R6MST	3.6±20%	0.021	28	5.25	3.70
CMLW6045S4R7MST	4.7±20%	0.026	24	5.00	3.35
CMLW6045S5R6MST	5.6±20%	0.029	23	4.15	3.15
CMLW6045S6R8MST	6.8±20%	0.031	20	3.90	3.00
CMLW6045S8R2MST	8.2±20%	0.043	21	3.90	2.60
CMLW6045S100MST	10±20%	0.048	15	3.20	2.45
CMLW6045S120MST	12±20%	0.058	13	2.80	2.20
CMLW6045S150MST	15±20%	0.068	12	2.50	2.05
CMLW6045S220MST	22±20%	0.089	10	2.05	1.80
CMLW6045S330MST	33±20%	0.137	7.8	1.65	1.45
CMLW6045S470MST	47±20%	0.200	6.4	1.40	1.20
CMLW6045S560MST	56±20%	0.221	6.4	1.30	1.10
CMLW6045S680MST	68±20%	0.289	6.4	1.20	1.00
CMLW6045S820MST	82±20%	0.341	4.9	1.05	0.90
CMLW6045S101MST	100±20%	0.433	4.2	0.95	0.80
CMLW6045S121MST	120±20%	0.484	4.2	0.85	0.77
CMLW6045S151MST	150±20%	0.580	4.2	0.80	0.70
CMLW6045S221MST	220±20%	0.834	3.5	0.70	0.59
CMLW6045S331MST	330±20%	1.270	2.8	0.57	0.57

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Part Number	Inductance @100MHz/1V (μH)	DC Resistance ±30% (Ω) DCR	Min.Self-resonant Frequency (MHz) S.R.F	Saturation Current(A) Isat	Heat Rating Current (A) Irms
CMLW8040S Series					
CMLW8040S1R0MST	1.0±20%	0.008	89	9.85	6.30
CMLW8040S1R5MST	1.5±20%	0.010	67	8.15	5.65
CMLW8040S2R2MST	2.2±20%	0.012	41	7.10	5.15
CMLW8040S3R3MST	3.3±20%	0.017	27	6.50	4.40
CMLW8040S4R7MST	4.7±20%	0.019	24	5.90	4.10
CMLW8040S5R6MST	5.6±20%	0.021	24	6.00	3.85
CMLW8040S6R8MST	6.8±20%	0.024	20	4.55	3.60
CMLW8040S8R2MST	8.2±20%	0.026	17	4.20	3.45
CMLW8040S100MST	10±20%	0.029	15	3.60	3.30
CMLW8040S150MST	15±20%	0.047	12	2.95	2.60
CMLW8040S220MST	22±20%	0.069	9.5	2.40	2.10
CMLW8040S330MST	33±20%	0.097	7.8	2.05	1.80
CMLW8040S470MST	47±20%	0.136	6.4	1.75	1.55
CMLW8040S560MST	56±20%	0.148	6.4	1.55	1.45
CMLW8040S680MST	68±20%	0.196	4.9	1.45	1.25
CMLW8040S101MST	100±20%	0.290	4.2	1.15	1.00
CMLW8040S121MST	120±20%	0.334	3.5	1.05	0.95
CMLW8040S151MST	150±20%	0.410	3.5	1.10	0.85
CMLW8040S221MST	220±20%	0.599	3.5	0.85	0.80
CMLW8040S331MST	330±20%	0.889	2.8	0.68	0.64

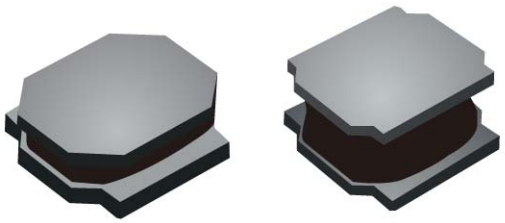
◆ Package

Size EIA (EIA)	CMLW201610S	CMLW252010S	CMLW252012S	CMLW3010S	CMLW3012S
Standard Packing Quantity (pcs / reel)	2,000	2,000	2,000	2,000	2,000
	CMLW3015S	CMLW4010S	CMLW4012S	CMLW4018S	CMLW4020S
	2,000	2,000	4,500	3,000	3,000
	CMLW4026S	CMLW4030S	CMLW5012S	CMLW5020S	CMLW5040S
	2,000	2,000	1,000	2,500	1,500
	CMLW6010S	CMLW6012S	CMLW6020S	CMLW6028S	CMLW6040S
	1,000	1,000	2,500	2,000	1,500
	CMLW6045S	CMLW8040S			
	1,500	1,000			

Wire Wound SMD Power Inductor
CMLW-P Series

◆ Features

1、Magnetic-resin shielded construction reduces buzz noise to ultra-low levels;
2、Fe base metal material core provides large saturation current;
3、Closed magnetic circuit design reduces eakage flux and Electro Magnetic Interference (EMI);
4、Low DCR decreases power loss, small and slim take up less PCB real estate;
5、Automatic production ensures high quality and consistency.



◆ Applications

1、Smart phone;
2、Mobile devices with multifunction such as adding color TV and camera;
3、Flat-screen TVs, blue-ray disc recorders, set top boxes;
4、Notebooks, desktop computers, servers, graphic cards;
5、Portable gaming devices, personal navigation systems, personal multimedia devices;
6、Automotive systems;
7、Telecomm base stations.

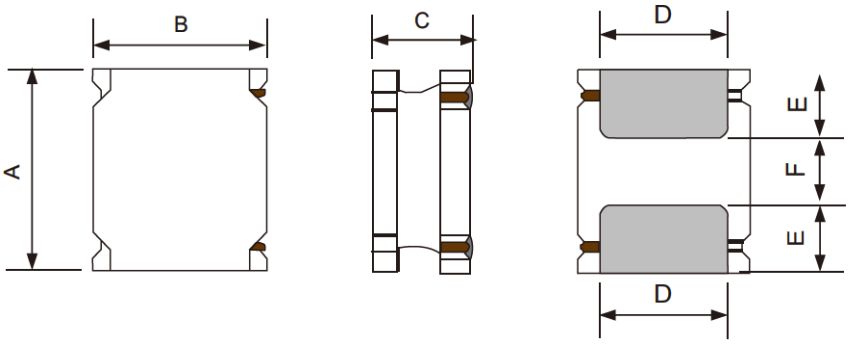
◆ Lead Free Part Numbering

CMLW	4020	P	100	M	S	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)

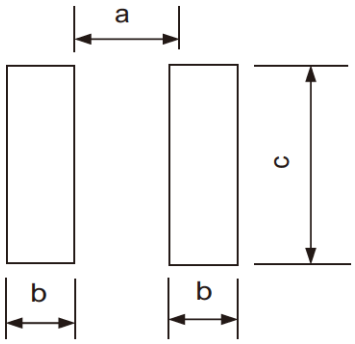
(1) Series Type;
(2) Dimension：L X H;
(3) Material Code;
(4) Inductance：2R2=2.2μH;100=10μH;
101=100μH;
(5) Inductance Tolerance：M=±20%, N=±30%;
(6) Company Code;
(7) Packaging：Tape Carrier Package.

◆ Dimensions

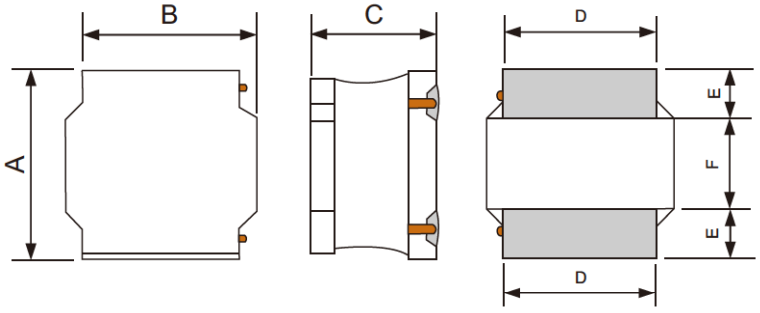
CMLW201610/252010/252012 Series



Recommended Land Pattern



CMLW 30/40 Series



Wire Wound SMD Power Inductor
CMLW-P Series

◆ Dimensions

Unit:mm

Series	A	B	C	D	E	F	a Typ.	b Typ.	c Typ.
CMLW201610P	2.0±0.2	1.6±0.1	1.0Max.	1.5±0.2	0.60±0.2	0.60±0.2	0.8	0.6	1.6
CMLW252010P	2.5±0.1	2.0±0.1	1.0Max.	1.5±0.2	0.80±0.2	0.80±0.2	0.8	0.85	2.0
CMLW252012P	2.5±0.1	2.0±0.1	1.2Max.	1.5±0.2	0.80±0.2	0.80±0.2	0.8	0.85	2.0
CMLW3012P	3.0±0.2	3.0±0.2	1.2Max.	1.5±0.2	0.75±0.2	1.50±0.2	1.5	0.8	2.7
CMLW4012P	4.0±0.2	4.0±0.2	1.2Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7
CMLW4020P	4.0±0.2	4.0±0.2	2.0Max.	3.3±0.2	0.95±0.2	2.10±0.2	1.9	1.1	3.7

◆ SPECFICATIONS

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100MHz/1V	Typ.	Max.	Max. (A)	Typ. (A)	Max. (A)	Typ. (A)
	(μH)	DCR (mΩ)		Isat		Irms	
CMLW201610P Series							
CMLW201610PR24MST	0.24±20%	33	40	4.50	5.50	3.00	3.45
CMLW201610PR47MST	0.47±20%	41	49	4.00	4.70	2.70	3.10
CMLW201610PR68MST	0.68±20%	57	65	3.50	4.00	2.50	2.80
CMLW201610P1R0MST	1.0±20%	75	90	2.60	2.80	2.05	2.35
CMLW201610P1R5MST	1.5±20%	110	130	1.95	2.30	1.70	2.00
CMLW201610P2R2MST	2.2±20%	142	170	1.90	2.15	1.45	1.70
CMLW201610P4R7MST	4.7±20%	370	425	1.20	1.50	0.90	1.00
CMLW201610P6R8MST	6.8±20%	500	600	1.10	1.40	0.70	0.80
CMLW201610P100MST	10±20%	688	826	0.80	0.95	0.65	0.75
CMLW252010P Series							
CMLW252010PR24MST	0.24±20%	24	32	6.70	7.20	4.00	4.70
CMLW252010PR33MST	0.33±20%	25	33	5.30	5.60	3.85	4.50
CMLW252010PR47MST	0.47±20%	38	45	4.90	5.50	3.20	3.80
CMLW252010PR68MST	0.68±20%	43	59	3.60	4.20	2.80	3.30
CMLW252010P1R0MST	1.0±20%	59	76	3.20	3.50	2.50	3.00
CMLW252010P1R5MST	1.5±20%	84	101	2.70	3.20	2.10	2.40
CMLW252010P2R2MST	2.2±20%	129	155	2.00	2.30	1.60	1.90
CMLW252010P3R3MST	3.3±20%	196	235	1.60	1.80	1.20	1.40
CMLW252010P4R7MST	4.7±20%	230	276	1.30	1.50	1.10	1.30
CMLW252010P6R8MST	6.8±20%	340	420	1.00	1.10	0.90	1.00
CMLW252010P100MST	10±20%	435	600	0.90	1.00	0.80	0.90

Wire Wound SMD Power Inductor
CMLW-P Series

◆ SPECFICATIONS

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100MHz/1V	Typ.	Max.	Max. (A)	Typ. (A)	Max. (A)	Typ. (A)
	(μH)	DCR (mΩ)		Isat		Irms	
CMLW252012P Series							
CMLW252012PR24MST	0.24±20%	19	23	7.00	8.50	4.05	4.70
CMLW252012PR33MST	0.33±20%	23	28	6.00	7.00	3.70	4.30
CMLW252012PR47MST	0.47±20%	29	35	5.10	5.80	3.45	4.00
CMLW252012PR68MST	0.68±20%	36	43	3.90	4.50	3.15	3.60
CMLW252012P1R0MST	1.0±20%	48	54	3.70	4.30	3.00	3.40
CMLW252012P1R5MST	1.5±20%	60	72	2.90	3.50	2.40	2.80
CMLW252012P2R2MST	2.2±20%	100	120	2.60	3.00	1.90	2.15
CMLW252012P3R3MST	3.3±20%	136	163	1.70	2.10	1.80	2.05
CMLW252012P4R7MST	4.7±20%	225	260	1.60	1.90	1.25	1.45
CMLW252012P6R8MST	6.8±20%	305	366	1.15	1.35	0.95	1.10
CMLW252012P100MST	10±20%	450	500	1.10	1.35	0.85	1.00
CMLW3012P Series							
CMLW3012P1R0MST	1.0±20%	45	54	4.20	5.40	2.70	3.10
CMLW3012P1R5MST	1.5±20%	64	74	3.40	4.10	2.50	2.90
CMLW3012P2R2MST	2.2±20%	90	108	2.80	3.35	2.05	3.25
CMLW3012P3R3MST	3.3±20%	129	155	2.20	2.60	1.70	2.00
CMLW3012P4R7MST	4.7±20%	196	235	2.00	2.50	1.30	1.50
CMLW3012P6R8MST	6.8±20%	290	340	1.45	1.20	1.25	1.10
CMLW3012P100MST	10±20%	395	474	1.20	1.45	1.00	1.15
CMLW4012P Series							
CMLW4012PR33MST	0.33±20%	32	27	11.50	10.30	4.90	4.30
CMLW4012PR47MST	0.47±20%	43	36	7.50	7.50	3.70	3.70
CMLW4012PR68MST	0.68±20%	60	46	6.90	6.90	3.50	3.50
CMLW4012P1R0MST	1.00±20%	65	51	5.40	5.40	3.30	3.30
CMLW4012P1R5MST	1.50±20%	86	64	4.00	4.00	3.00	3.00
CMLW4012P2R2MST	2.20±20%	110	110	3.20	3.20	2.80	2.80
CMLW4012P3R3MST	3.30±20%	150	120	2.90	2.90	2.60	2.60
CMLW4012P4R7MST	4.70±20%	195	135	2.60	2.60	2.30	2.30
CMLW4012P6R8MST	6.80±20%	230	185	2.00	2.00	1.80	1.80
CMLW4012P100MST	10.00±20%	310	250	1.80	1.80	1.60	1.60
CMLW4012P150MST	15.00±20%	500	400	1.50	1.50	1.25	1.25
CMLW4012P220MST	22.00±20%	680	530	1.20	1.20	1.10	1.10

Wire Wound SMD Power Inductor
CMLW-P Series

◆ SPECFICATIONS

Part Number	Inductance	DC Resistance		Saturation Current		Heat Rating Current	
	@100MHz/1V	Typ.	Max.	Max. (A)	Typ. (A)	Max. (A)	Typ. (A)
	(μH)	DCR (mΩ)		Isat		Irms	
CMLW4020P Series							
CMLW4020PR22MST	0.22±20%	13	11	22.00	18.70	9.50	8.20
CMLW4020PR47MST	0.47±20%	22	18	15.00	13.40	7.40	6.40
CMLW4020PR68MST	0.68±20%	22	18	11.10	8.70	7.40	6.40
CMLW4020P1R0MST	1.00±20%	36	30	7.70	7.70	4.50	4.50
CMLW4020P1R5MST	1.50±20%	46	39	7.00	7.00	4.00	4.00
CMLW4020P2R2MST	2.20±20%	60	50	6.50	6.50	3.70	3.70
CMLW4020P3R3MST	3.30±20%	96	80	5.50	5.50	2.50	2.50
CMLW4020P4R7MST	4.70±20%	132	105	4.90	4.90	2.30	2.30
CMLW4020P6R8MST	6.80±20%	180	150	3.00	3.00	1.80	1.80
CMLW4020P100MST	10.00±20%	228	190	2.80	2.80	1.50	1.50
CMLW4020P220MST	22.00±20%	576	480	2.00	2.00	1.10	1.10

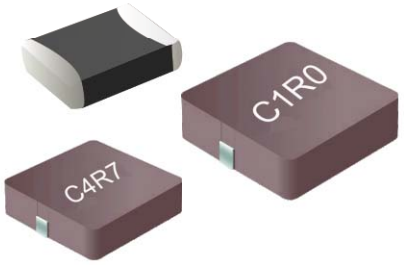
◆ Package

Size EIA (EIA)	CMLW201610P	CMLW252010P	CMLW252012P	CMLW3012P
Standard Packing Quantity (pcs / reel)	2,000	2,000	2,000	2,000
	CMLW4012P	CMLW4020P		
	4,500	3,000		

SMD Molding Power Inductor
CMLO Series

◆ Features

1、Magnetically shielded construction, low DC resistance;
2、The use of magnetic iron powder ensure apability for large current;
3、Low audible core noise;4、Ideal for DC-DC converter applications in hand held personal computer and etc;
5、Frequency Range: up to 3.0MHz;
6、RoHS compliant.



◆ Applications

1、Smart phone、MID;
2、Next-generation mobile devices with multifunction such as adding color TV and digital movie ameras;
3、Flat-screen TVs, blue-ray disc recorders, set top box;
4、Notebooks, desktop computers, servers, graphic cards;
5、Portable gaming devices, personal navigation systems, personal multimedia devices;
6、Automotive systems;
7、Telecomm base stations.

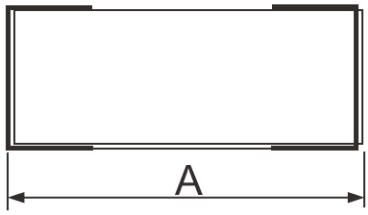
◆ Lead Free Part Numbering

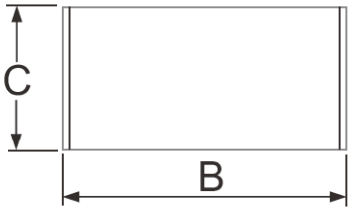
CMLO	0630	H	100	M	T	T
(1)	(2)	(3)	(4)	(5)	(6)	(7)

(1) Series Type;
(2) Dimension：A X C;
(3) Material Code;
(4) Inductance：2R2=2.2μH;
100=10μH; 101=100μH;
(5) Inductance Tolerance：M=±20%; Y=±30%;
(6) Company Code;
(7) Packaging：packed in embossed carrier tape.

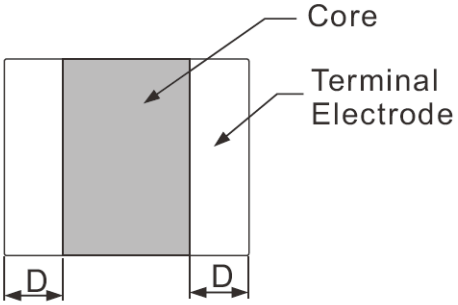
◆ Dimensions

CMLO201610/252010/252012 Series

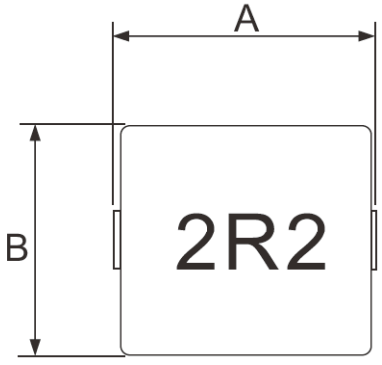




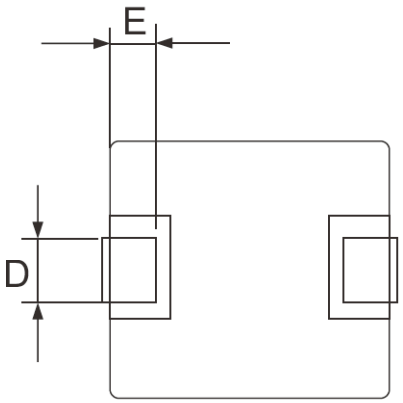
Recommended Land Pattern



CMLO04/05/06/08/10/13/17 Series







SMD Molding Power Inductor
CMLO Series

◆ Dimensions

Unit:mm

Series	A±0.2(mm)	B±0.2(mm)	C(mm)	D±0.1(mm)	E±0.1(mm)
CMLO201610	2.0	1.6	1.0Max.	0.5	0.5
CMLO252010	2.5	2.0	1.0Max.	0.6	0.6
CMLO252012	2.5	2.0	1.2Max.	0.6	0.6
CMLO0412	4.3	4.0	1.2Max.	1.5	0.8
CMLO0415	4.3	4.0	1.5Max.	1.5	0.8
CMLO0420	4.3	4.0	2.0Max.	1.5	0.8
CMLO0515	5.2	4.7	1.5Max.	2.0	1.0
CMLO0520	5.2	4.7	2.0Max.	2.0	1.0
CMLO0530	5.2	4.7	3.0Max.	2.0	1.0
CMLO0618	7.1	6.6	1.8Max.	2.5	1.3
CMLO0620	7.1	6.6	2.0Max.	2.5	1.3
CMLO0624	7.1	6.6	2.4Max.	2.5	1.3
CMLO0630	7.1	6.6	3.0Max.	2.5	1.3
CMLO0640	7.1	6.6	3.0Max.	2.5	1.3
CMLO0650	7.1	6.6	5.0Max.	2.5	1.3
CMLO0850	7.8	7.2	5.0Max.	3.0	1.6
CMLO1040	11.15	10.0	4.0Max.	3.0	2.0
CMLO1050	11.15	10.0	5.0Max.	3.0	2.0
CMLO1335	13.45	12.6	3.5Max.	4.0	2.0
CMLO1350	13.45	12.6	5.0Max.	4.0	2.0
CMLO1365	13.45	12.6	6.5Max.	4.0	2.0
CMLO1770	17.50	17.5	7.0Max.	11.0	2.0

◆ SPECFICATIONS

Part Number	INDUCTANCE Lo(μH)	DCR(mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO201610S Series						
CMLO201610SR24MTT	0.24±20%	28	40	2MHz/0.2V	4.50	6.00
CMLO201610SR33MTT	0.33±20%	40	48	2MHz/0.2V	3.80	5.50
CMLO201610SR47MTT	0.47±20%	44	54	2MHz/0.2V	3.60	5.00
CMLO201610SR56MTT	0.56±20%	46	59	2MHz/0.2V	3.30	4.60
CMLO201610SR68MTT	0.68±20%	55	72	2MHz/0.2V	3.00	4.20
CMLO201610S1R0MTT	1.0±20%	81	96	2MHz/0.2V	2.30	3.40
CMLO201610S1R5MTT	1.5±20%	122	150	2MHz/0.2V	2.00	2.80
CMLO201610S2R2MTT	2.2±20%	170	204	2MHz/0.2V	1.70	2.40
CMLO252010S Series						
CMLO252010SR24MTT	0.24±20%	24	40	2MHz/0.2V	5.00	9.50
CMLO252010SR33MTT	0.33±20%	25	31	2MHz/0.2V	4.40	6.00
CMLO252010SR47MTT	0.47±20%	29	35	2MHz/0.2V	3.90	4.70

SMD Molding Power Inductor
CMLO Series

◆ SPECFICATIONS

Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO252010S Series						
CMLO252010SR68MTT	0.68±20%	40	48	2MHz/0.2V	3.50	4.00
CMLO252010S1R0MTT	1.0±20%	54	65	2MHz/0.2V	3.00	3.60
CMLO252010S1R5MTT	1.5±20%	78	94	2MHz/0.2V	2.40	3.30
CMLO252010S2R2MTT	2.2±20%	100	120	2MHz/0.2V	2.10	2.70
CMLO252012S Series						
CMLO252012SR33MTT	0.33±20%	27.00	35.00	2MHz/0.2V	4.60	8.50
CMLO252012SR47MTT	0.47±20%	29.00	39.00	2MHz/0.2V	4.40	7.80
CMLO252012SR68MTT	0.68±20%	40.00	46.00	2MHz/0.2V	3.70	6.50
CMLO252012S1R0MTT	1.0±20%	45.00	59.00	2MHz/0.2V	3.50	5.00
CMLO252012S1R5MTT	1.5±20%	62.00	70.00	2MHz/0.2V	2.70	4.00
CMLO252012S2R2MTT	2.2±20%	102.00	115.00	2MHz/0.2V	2.30	3.80
CMLO201610F Series						
CMLO201610FR24MTT	0.24±20%	16	22	1MHz/1.0V	4.60	5.50
CMLO201610FR33MTT	0.33±20%	22	31	1MHz/1.0V	3.70	5.15
CMLO201610FR47MTT	0.47±20%	33	40	1MHz/1.0V	3.26	3.81
CMLO201610FR68MTT	0.68±20%	41	49	1MHz/1.0V	3.15	3.38
CMLO201610F1R0MTT	1.0±20%	60	69	1MHz/1.0V	2.56	2.73
CMLO201610F1R5MTT	1.5±20%	113	128	1MHz/1.0V	1.79	2.45
CMLO201610F2R2MTT	2.2±20%	135	150	1MHz/1.0V	1.68	1.80
CMLO201610F3R3MTT	3.3±20%	210	254	1MHz/1.0V	1.33	1.34
CMLO201610F4R7MTT	4.7±20%	308	376	1MHz/1.0V	1.07	1.24
CMLO252010F Series						
CMLO252010FR33MTT	0.33±20%	20	27	1MHz/1.0V	4.30	6.50
CMLO252010FR47MTT	0.47±20%	25	33	1MHz/1.0V	3.60	4.90
CMLO252010FR68MTT	0.68±20%	35	46	1MHz/1.0V	3.20	4.10
CMLO252010F1R0MTT	1.0±20%	44	55	1MHz/1.0V	2.70	3.46
CMLO252010F1R0MTT	1.5±20%	75	92	1MHz/1.0V	2.30	2.46
CMLO252010F2R2MTT	2.2±20%	98	120	1MHz/1.0V	1.73	2.27
CMLO252010F4R7MTT	4.7±20%	210	276	1MHz/1.0V	1.22	1.69
CMLO252012F Series						
CMLO252012FR47MTT	0.47±20%	19	27	1MHz/1.0V	4.22	5.10
CMLO252012FR68MTT	0.68±20%	27	36	1MHz/1.0V	3.50	4.73
CMLO252012F1R0MTT	1.0±20%	39	50	1MHz/1.0V	3.29	4.27

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Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO252012F Series						
CMLO252012F1R5MTT	1.5±20%	62	78	1MHz/1.0V	2.39	3.17
CMLO252012F2R2MTT	2.2±20%	81	99	1MHz/1.0V	2.27	2.85
CMLO252012F4R7MTT	4.7±20%	193	237	1MHz/1.0V	1.55	1.73
CMLO0412S Series						
CMLO0412SR47MTT	0.47	24	30	100KHz/1V	3.50	6.00
CMLO0412SR68MTT	0.68	36	41	100KHz/1V	3.50	5.00
CMLO0412S1R0MTT	1.00	60	79	100KHz/1V	2.50	5.00
CMLO0412S1R5MTT	1.50	105	142	100KHz/1V	2.00	3.50
CMLO0412S2R2MTT	2.20	128	169	100KHz/1V	2.00	3.00
CMLO0415S Series						
CMLO0415SR22MTT	0.22	8	9.3	100KHz/1V	7.00	11.00
CMLO0415SR47MTT	0.47	20	27	100KHz/1V	5.00	9.00
CMLO0415S1R0MTT	1.00	39	50	100KHz/1V	4.00	6.00
CMLO0415S1R5MTT	1.50	48	63	100KHz/1V	4.00	6.00
CMLO0415S2R2MTT	2.20	67	86	100KHz/1V	2.50	4.00
CMLO0415S3R3MTT	3.30	116	156	100KHz/1V	2.00	3.50
CMLO0420H Series						
CMLO0420HR22MTT	0.22	6	6.6	100KHz/1V	9.00	12.50
CMLO0420HR47MTT	0.47	10	14	100KHz/1V	7.00	9.50
CMLO0420HR56MTT	0.56	12	16	100KHz/1V	6.00	8.50
CMLO0420HR68MTT	0.68	16	21	100KHz/1V	5.20	8.50
CMLO0420H1R0MTT	1.00	19	27	100KHz/1V	4.50	7.00
CMLO0420H1R2MTT	1.20	20	28	100KHz/1V	4.50	6.50
CMLO0420H1R5MTT	1.50	28	42	100KHz/1V	4.00	6.00
CMLO0420H2R2MTT	2.20	42	58	100KHz/1V	3.00	5.00
CMLO0420H3R3MTT	3.30	63	87	100KHz/1V	2.50	4.00
CMLO0420H4R7MTT	4.70	84	104	100KHz/1V	2.20	3.00
CMLO0420H6R8MTT	6.80	130	170	100KHz/1V	2.00	2.50
CMLO0420H100MTT	10.00	205	265	100KHz/1V	1.60	2.20
CMLO0515S Series						
CMLO0515S1R0MTT	1.00	31	40	100KHz/1V	4.00	5.50
CMLO0515S2R2MTT	2.20	35	42	100KHz/1V	3.50	4.50
CMLO0515S3R3MTT	3.30	44	58	100KHz/1V	2.50	3.50

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Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO0515S Series						
CMLO0515S4R7MTT	4.7	156	200	100KHz/1V	2.9	3
CMLO0520S Series						
CMLO0520HR68MTT	0.68	15	20	100KHz/1V	5.00	10.00
CMLO0520H1R0MTT	1.0	15	21	100KHz/1V	5.00	8.00
CMLO0520H1R2MTT	1.2	17	27	100KHz/1V	5.00	8.00
CMLO0520H1R5MTT	1.5	20	26	100KHz/1V	4.00	6.00
CMLO0520H2R2MTT	2.2	32	42	100KHz/1V	3.50	6.00
CMLO0520H3R3MTT	3.3	44	58	100KHz/1V	3.50	5.50
CMLO0520H4R7MTT	4.7	68	90	100KHz/1V	3.20	4.50
CMLO0520H5R6MTT	5.6	75	97	100KHz/1V	3.00	4.00
CMLO0520H6R8MTT	6.8	105	130	100KHz/1V	2.50	3.00
CMLO0520H100MTT	10	170	221	100KHz/1V	2.00	3.00
CMLO0530H Series						
CMLO0530HR47MTT	0.47	5	7.4	100KHz/1V	12.00	16.00
CMLO0530HR68MTT	0.68	9	12	100KHz/1V	8.50	14.00
CMLO0530H1R0MTT	1.00	11	14	100KHz/1V	7.00	9.00
CMLO0530H1R5MTT	1.50	20	25	100KHz/1V	6.00	8.20
CMLO0530H2R2MTT	2.20	25	35	100KHz/1V	5.50	7.50
CMLO0530H3R3MTT	3.30	28	38	100KHz/1V	5.00	5.50
CMLO0530H4R7MTT	4.70	46	60	100KHz/1V	4.00	4.50
CMLO0530H5R6MTT	5.60	53	63	100KHz/1V	4.00	4.00
CMLO0530H6R8MTT	6.80	66	76	100KHz/1V	4.00	3.50
CMLO0530H100MTT	10.00	108	128	100KHz/1V	2.80	2.50
CMLO0618H Series						
CMLO0618HR10MTT	0.10	2	2.5	100KHz/1V	18.00	45.00
CMLO0618HR33MTT	0.33	5.2	6.8	100KHz/1V	12.00	22.00
CMLO0618HR47MTT	0.47	7.3	8.4	100KHz/1V	11.00	18.00
CMLO0618HR68MTT	0.68	10.8	12.7	100KHz/1V	9.50	17.00
CMLO0618H1R0MTT	1.00	14.5	17	100KHz/1V	7.00	14.00
CMLO0618H2R2MTT	2.20	31	35	100KHz/1V	6.00	13.00
CMLO0618H3R3MTT	3.30	56	60	100KHz/1V	3.50	10.00
CMLO0618H4R7MTT	4.70	68	72	100KHz/1V	3.50	5.00
CMLO0618H6R8MTT	6.80	71	95	100KHz/1V	2.80	3.50

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Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO0620H Series						
CMLO0620HR20MTT	0.20	2.5	3.5	100KHz/1V	16.00	30.00
CMLO0620HR33MTT	0.33	5.6	6.8	100KHz/1V	13.00	24.00
CMLO0620HR47MTT	0.47	6.4	8.0	100KHz/1V	10.00	22.00
CMLO0620HR68MTT	0.68	10.0	12.0	100KHz/1V	8.00	14.00
CMLO0620H1R0MTT	1.00	16.0	19.2	100KHz/1V	6.00	10.00
CMLO0620H1R5MTT	1.50	22.0	27.0	100KHz/1V	5.50	10.00
CMLO0620H2R2MTT	2.20	30.0	36.0	100KHz/1V	5.00	9.00
CMLO0620H3R3MTT	3.30	65.0	78.0	100KHz/1V	4.50	8.00
CMLO0620H4R7MTT	4.70	73.0	88.0	100KHz/1V	4.00	7.00
CMLO0620H6R8MTT	6.80	114	160	100KHz/1V	3.50	5.00
CMLO0620H100MTT	10.00	147	180	100KHz/1V	2.00	4.00
CMLO0624H Series						
CMLO0624HR10MTT	0.10	1.5	1.7	100KHz/1V	30.00	50.00
CMLO0624HR15MTT	0.15	1.9	2.1	100KHz/1V	25.00	45.00
CMLO0624HR22MTT	0.22	2.9	3.2	100KHz/1V	21.00	34.00
CMLO0624HR33MTT	0.33	3.7	4.1	100KHz/1V	18.00	22.00
CMLO0624HR47MTT	0.47	6.0	6.5	100KHz/1V	13.50	21.00
CMLO0624HR68MTT	0.68	8.7	9.4	100KHz/1V	11.00	18.00
CMLO0624HR82MTT	0.82	10.6	11.8	100KHz/1V	10.00	17.00
CMLO0624H1R0MTT	1.00	13.0	14.2	100KHz/1V	9.00	16.00
CMLO0624H1R5MTT	1.50	18.5	21.2	100KHz/1V	7.50	15.00
CMLO0624H2R2MTT	2.20	28.0	34.0	100KHz/1V	6.50	14.00
CMLO0624H3R3MTT	3.30	36.5	51.6	100KHz/1V	5.00	13.00
CMLO0624H4R7MTT	4.70	45.0	63.0	100KHz/1V	4.50	9.00
CMLO0624H5R6MTT	5.60	66.0	73.0	100KHz/1V	4.00	8.00
CMLO0624H6R8MTT	6.80	72.5	95.0	100KHz/1V	3.60	7.00
CMLO0624H8R2MTT	8.20	84.0	106.0	100KHz/1V	3.00	6.50
CMLO0624H100MTT	10.00	116	129	100KHz/1V	2.50	6.00
CMLO0630H Series						
CMLO0630HR22MTT	0.22	2.8	3.0	100KHz/1V	21.00	28.00
CMLO0630HR33MTT	0.33	3.1	3.5	100KHz/1V	21.00	25.00
CMLO0630HR47MTT	0.47	4.0	4.2	100KHz/1V	18.00	25.00
CMLO0630HR56MTT	0.56	4.3	4.9	100KHz/1V	16.00	20.00

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Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO0630H Series						
CMLO0630HR68MTT	0.68	5.0	5.5	100KHz/1V	13.00	24.00
CMLO0630H1R0MTT	1.00	6.8	7.5	100KHz/1V	12.50	23.00
CMLO0630H1R5MTT	1.50	10.5	12.1	100KHz/1V	12.00	22.00
CMLO0630H2R2MTT	2.20	14.0	17.5	100KHz/1V	9.50	18.00
CMLO0630H3R3MTT	3.30	24.0	26.0	100KHz/1V	8.50	14.00
CMLO0630H4R7MTT	4.70	31.0	38.0	100KHz/1V	6.00	12.00
CMLO0630H5R6MTT	5.60	33.0	42.0	100KHz/1V	5.50	9.00
CMLO0630H6R8MTT	6.80	45.0	54.0	100KHz/1V	5.00	8.00
CMLO0630H8R2MTT	8.20	55.0	65.0	100KHz/1V	4.50	8.00
CMLO0630H100MTT	10.00	66	76	100KHz/1V	4.00	6.00
CMLO0630H150MTT	15.00	97	115	100KHz/1V	4.00	5.50
CMLO0630H220MTT	22.00	139	179	100KHz/1V	3.00	5.00
CMLO0630H330MTT	33.00	189	270	100KHz/1V	3.00	3.20
CMLO0640H Series						
CMLO0640HR47MTT	0.47	3.4	4.0	100KHz/1V	12.00	22.00
CMLO0640HR68MTT	0.68	4.9	5.3	100KHz/1V	10.00	20.00
CMLO0640HR82MTT	0.82	5.9	7.0	100KHz/1V	13.00	18.00
CMLO0640H1R0MTT	1.00	5.5	6.0	100KHz/1V	12.00	18.00
CMLO0640H1R5MTT	1.50	9.0	10.8	100KHz/1V	7.00	15.00
CMLO0640H2R2MTT	2.20	10.0	13.0	100KHz/1V	6.00	12.00
CMLO0640H3R3MTT	3.30	13.0	16.0	100KHz/1V	5.50	11.00
CMLO0640H4R7MTT	4.70	18.0	22.0	100KHz/1V	5.00	9.00
CMLO0640H6R8MTT	6.80	41.0	49.0	100KHz/1V	4.00	8.00
CMLO0640H100MTT	10.00	51.0	65.0	100KHz/1V	3.00	6.00
CMLO0640H150MTT	15.00	64.0	77.0	100KHz/1V	2.50	5.50
CMLO0640H220MTT	22.00	98.0	117.0	100KHz/1V	2.00	4.00
CMLO0650H Series						
CMLO0650HR22MTT	0.22	1.1	1.3	100KHz/1V	30.00	35.00
CMLO0650HR47MTT	0.47	2.9	3.8	100KHz/1V	20.00	21.00
CMLO0650HR68MTT	0.68	3.2	4.2	100KHz/1V	18.00	16.00
CMLO0650HR82MTT	0.82	3.9	4.9	100KHz/1V	16.50	17.00
CMLO0650H1R0MTT	1.00	5.2	6.5	100KHz/1V	12.00	13.00
CMLO0650H1R5MTT	1.50	7.3	8.5	100KHz/1V	10.00	10.00

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		Typ.	Max		Typ.	Typ.
CMLO0650H Series						
CMLO0650H2R2MTT	2.20	10.0	12.5	100KHz/1V	9.50	10.00
CMLO0650H3R3MTT	3.30	14.0	20.9	100KHz/1V	8.50	9.00
CMLO0650H4R7MTT	4.70	24.0	27.0	100KHz/1V	6.50	8.00
CMLO0650H6R8MTT	6.80	34.0	38.0	100KHz/1V	5.50	7.00
CMLO0650H100MTT	10.00	48.0	55.0	100KHz/1V	4.50	6.00
CMLO0650H150MTT	15.00	76.0	85.0	100KHz/1V	3.10	4.00
CMLO0650H220MTT	22.00	110	130	100KHz/1V	2.60	3.50
CMLO0650H330MTT	33.00	160	200	100KHz/1V	2.30	3.00
CMLO0650H470MTT	47.00	252	290	100KHz/1V	2.00	2.80
CMLO0850S Series						
CMLO0850S2R2MTT	2.20	10	12	100KHz/1V	9.00	14.00
CMLO0850S6R8MTT	6.80	23	30	100KHz/1V	5.50	8.00
CMLO0850S100MTT	10.00	37	65	100KHz/1V	4.80	7.00
CMLO0850S220MTT	22.00	107	140	100KHz/1V	3.50	4.00
CMLO0850S270MTT	27.00	140	182	100KHz/1V	3.50	5.00
CMLO0850S330MTT	33.00	194	237	100KHz/1V	2.50	4.00
CMLO0850S470MTT	47.00	206	247	100KHz/1V	2.50	3.00
CMLO0850S560MTT	56.00	240	310	100KHz/1V	2.00	3.00
CMLO1040H Series						
CMLO1040HR22MTT	0.22	0.8	1.0	100KHz/1V	35.00	60.00
CMLO1040HR33MTT	0.33	1.0	1.2	100KHz/1V	25.00	51.00
CMLO1040HR47MTT	0.47	1.3	1.7	100KHz/1V	24.00	35.00
CMLO1040HR56MTT	0.56	1.5	1.8	100KHz/1V	23.50	33.00
CMLO1040HR68MTT	0.68	1.9	2.4	100KHz/1V	20.00	30.00
CMLO1040H1R0MTT	1.00	3.0	3.3	100KHz/1V	18.00	28.00
CMLO1040H1R5MTT	1.50	3.8	5.5	100KHz/1V	12.00	24.00
CMLO1040H2R2MTT	2.20	5.8	7.0	100KHz/1V	12.00	18.00
CMLO1040H3R3MTT	3.30	10.0	11.0	100KHz/1V	10.00	16.00
CMLO1040H4R7MTT	4.70	12.0	19.0	100KHz/1V	8.50	13.00
CMLO1040H5R6MTT	5.60	20.0	23.0	100KHz/1V	8.00	11.00
CMLO1040H6R8MTT	6.80	22.0	25.0	100KHz/1V	7.00	10.00
CMLO1040H100MTT	10.00	27.0	30.0	100KHz/1V	5.50	8.50
CMLO1040H150MTT	15.00	32.0	45.0	100KHz/1V	4.50	7.00

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Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO1040H Series						
CMLO1040H220MTT	22.00	51	66	100KHz/1V	4.00	5.50
CMLO1040H330MTT	33.00	79	92	100KHz/1V	3.50	5.00
CMLO1040H470MTT	47.00	101	145	100KHz/1V	3.00	3.70
CMLO1040H680MTT	68.00	155	205	100KHz/1V	2.30	3.00
CMLO1040H820MTT	82.00	205	285	100KHz/1V	2.00	3.00
CMLO1040H101MTT	100.00	265	300	100KHz/1V	1.50	2.00
CMLO1050H Series						
CMLO1050HR82MTT	0.82	1.8	2.5	100KHz/1V	16.00	32.00
CMLO1050H1R0MTT	1.00	3.0	4.0	100KHz/1V	15.00	30.00
CMLO1050H1R8MTT	1.80	4.5	6.0	100KHz/1V	15.00	27.50
CMLO1050H2R2MTT	2.20	6.0	8.0	100KHz/1V	14.00	27.00
CMLO1050H3R3MTT	3.30	7.5	11.0	100KHz/1V	10.00	19.00
CMLO1050H4R7MTT	4.70	14.0	17.0	100KHz/1V	9.00	14.00
CMLO1050H6R8MTT	6.80	17.5	22.0	100KHz/1V	8.00	10.00
CMLO1050H100MTT	10.00	31.0	38.0	100KHz/1V	6.80	10.00
CMLO1050H150MTT	15.00	39.0	45.0	100KHz/1V	6.00	10.00
CMLO1050H220MTT	22.00	52.0	60.0	100KHz/1V	5.00	7.00
CMLO1050H330MTT	33.00	127	145	100KHz/1V	3.50	6.00
CMLO1350S Series						
CMLO1350SR33MTT	0.33	0.85	1.10	100KHz/1V	42.00	80.00
CMLO1350SR47MTT	0.47	1.10	1.50	100KHz/1V	38.00	65.00
CMLO1350SR56MTT	0.56	1.40	1.70	100KHz/1V	36.00	55.00
CMLO1350SR68MTT	0.68	1.50	1.70	100KHz/1V	34.00	54.00
CMLO1350SR82MTT	0.82	2.00	2.50	100KHz/1V	31.00	53.00
CMLO1350S1R0MTT	1.00	2.40	3.50	100KHz/1V	29.00	50.00
CMLO1350S1R2MTT	1.20	2.80	4.00	100KHz/1V	25.00	49.00
CMLO1350S1R5MTT	1.50	3.80	5.00	100KHz/1V	21.00	48.00
CMLO1350S1R8MTT	1.80	4.20	6.00	100KHz/1V	19.00	40.00
CMLO1350S2R2MTT	2.20	4.80	7.20	100KHz/1V	20.00	32.00
CMLO1350S3R3MTT	3.30	6.20	9.20	100KHz/1V	15.00	30.00
CMLO1350S4R7MTT	4.70	12.80	15.00	100KHz/1V	12.00	27.00
CMLO1350S5R6MTT	5.60	14.00	17.00	100KHz/1V	12.00	22.00
CMLO1350S6R8MTT	6.80	15.40	18.50	100KHz/1V	11.00	21.00

SMD Molding Power Inductor
CMLO Series

◆ SPECFICATIONS

Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO1350S Series						
CMLO1350S8R2MTT	8.20	18.9	22.5	100KHz/1V	10.00	18.00
CMLO1350S100MTT	10.00	21.4	25.5	100KHz/1V	9.00	16.00
CMLO1350S150MTT	15.00	54.0	60.0	100KHz/1V	6.00	12.00
CMLO1350S220MTT	22.00	63.0	70.0	100KHz/1V	4.00	8.00
CMLO1350S330MTT	33.00	70.0	80.0	100KHz/1V	3.00	6.00
CMLO1350S470MTT	47.00	78.0	90.0	100KHz/1V	2.50	5.50
CMLO1350S560MTT	56.00	143.0	191.6	100KHz/1V	2.00	4.00
CMLO1350S680MTT	68.00	154.0	206.7	100KHz/1V	1.50	3.50
CMLO1360S Series						
CMLO1360SR33MTT	0.33	0.7	1.0	100KHz/1V	46.00	60.00
CMLO1360SR68MTT	0.68	1.3	2.5	100KHz/1V	35.00	60.00
CMLO1360S1R0MTT	1.00	2.9	4.0	100KHz/1V	22.00	30.00
CMLO1360S2R2MTT	2.20	5.2	7.2	100KHz/1V	20.00	28.00
CMLO1360S3R3MTT	3.30	6.4	8.2	100KHz/1V	15.00	25.00
CMLO1360S4R7MTT	4.70	10.0	15.0	100KHz/1V	13.00	22.00
CMLO1360S6R8MTT	6.80	18.0	23.0	100KHz/1V	11.00	20.00
CMLO1360S100MTT	10.00	22.0	25.0	100KHz/1V	10.00	12.50
CMLO1360S220MTT	22.00	44.0	50.0	100KHz/1V	5.00	7.50
CMLO1365S Series						
CMLO1365SR56MTT	0.56	1.2	1.6	100KHz/1V	37.00	62.00
CMLO1365SR68MTT	0.68	1.3	1.8	100KHz/1V	34.00	54.00
CMLO1365SR82MTT	0.82	1.6	2.0	100KHz/1V	33.00	50.00
CMLO1365S1R0MTT	1.00	1.7	2.5	100KHz/1V	25.00	47.00
CMLO1365S1R5MTT	1.50	2.5	3.5	100KHz/1V	22.00	45.00
CMLO1365S1R8MTT	1.80	2.8	3.6	100KHz/1V	20.00	41.00
CMLO1365S2R2MTT	2.20	3.5	4.5	100KHz/1V	18.00	40.00
CMLO1365S3R3MTT	3.30	6.3	7.0	100KHz/1V	15.00	35.00
CMLO1365S4R7MTT	4.70	10.8	13.0	100KHz/1V	12.00	30.00
CMLO1365S5R6MTT	5.60	11.0	15.0	100KHz/1V	11.00	26.50
CMLO1365S6R8MTT	6.80	13.1	17.0	100KHz/1V	10.00	16.50
CMLO1365S8R2MTT	8.20	14.5	18.0	100KHz/1V	8.00	16.00
CMLO1365S100MTT	10.00	17.0	25.0	100KHz/1V	9.00	15.50
CMLO1365S150MTT	15.00	30.5	38.0	100KHz/1V	6.00	9.00

SMD Molding Power Inductor
CMLO Series

◆ SPECFICATIONS

Part Number	INDUCTANCE Lo(μH)	DCR (mΩ)		Test a condition	IHEAT RATING CURRENT(Idc) DC AMPS1	SATURATION CURRENT(Isat) DC AMPS2
		Typ.	Max		Typ.	Typ.
CMLO1365S Series						
CMLO1365S220MTT	22.00	44.0	48.0	100KHz/1V	5.00	7.50
CMLO1365S330MTT	33.00	57.5	66.0	100KHz/1V	5.00	6.50
CMLO1365S470MTT	47.00	80.0	90.0	100KHz/1V	3.50	5.50
CMLO1365S560MTT	56.00	90.0	110.0	100KHz/1V	3.00	6.00
CMLO1365S680MTT	68.00	96.0	115.0	100KHz/1V	4.00	6.00
CMLO1365S820MTT	82.00	101	121	100KHz/1V	2.50	4.50
CMLO1365S101MTT	100.00	122	147	100KHz/1V	2.00	4.00
CMLO1770S Series						
CMLO1770S2R2MTT	2.20	2.3	2.7	100KHz/1V	28.00	40.00
CMLO1770S4R7MTT	4.70	3.9	5.0	100KHz/1V	20.00	35.00
CMLO1770S6R8MTT	6.80	5.7	6.9	100KHz/1V	13.00	23.00
CMLO1770S8R2MTT	8.20	7.0	8.4	100KHz/1V	12.00	22.00
CMLO1770S100MTT	10.00	7.1	8.5	100KHz/1V	10.00	18.00
CMLO1770S150MTT	15.00	18.0	22.0	100KHz/1V	9.00	17.00
CMLO1770S220MTT	22.00	20.0	24.0	100KHz/1V	8.00	15.00
CMLO1770S330MTT	33.00	26.0	35.0	100KHz/1V	6.50	11.00
CMLO1770S470MTT	47.00	39.0	47.0	100KHz/1V	6.00	10.00
CMLO1770S680MTT	68.00	67.0	80.0	100KHz/1V	5.00	9.00
CMLO1770S820MTT	82.00	86.0	100.0	100KHz/1V	4.50	8.00
CMLO1770S101MTT	100.00	104	125	100KHz/1V	4.00	7.00
CMLO1770S151MTT	150.00	135	162	100KHz/1V	3.00	5.00
CMLO1770S351MTT	350.00	382	458	100KHz/1V	2.00	3.50

◆ Package

Size EIA (EIA)	CMLO201610	CMLO252010	CMLO252012	CMLO0412	CMLO0415	CMLO0420	CMLO0515
Standard Packing Quantity (pcs / reel)	3,000	3,000	3,000	3,000	3,000	3,000	3,000
	CMLO0520	CMLO0530	CMLO0618S	CMLO0620	CMLO0624	CMLO0630	CMLO0640
	3,000	2,000	2,000	2,000	1,000	1,000	1,000
	CMLO0650	CMLO0850	CMLO1040	CMLO1050	CMLO1350	CMLO1360	CMLO1365
	1,000	1,000	1,000	800	500	500	400
	CMLO1770						
	300						

cybermax®
cybermaxtech.com

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ Features

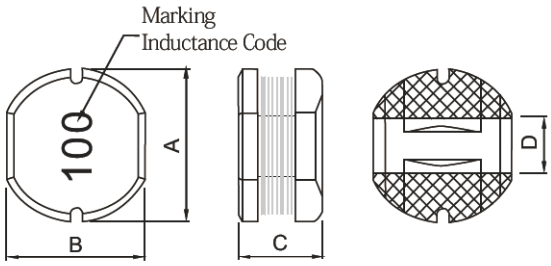
1、Excellent solderability and high heat resistance;
2、Excellent terminal strength construction;
3、Packed in embossed carrier tape and can be used by automatic mounting machine.



◆ Applications

Power supply for VCR;
OA equipment;
LCD television set notebook;
DC to DC converters;
DC to AC inverters etc.

◆ Shape & Dimensions



◆ Lead Free Part Numbering

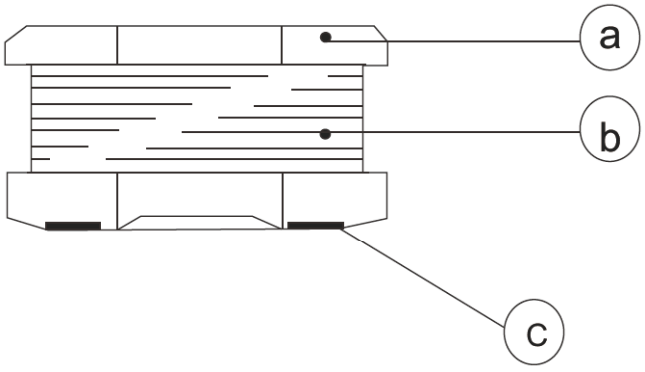
CMLF 0504 - 100 M T T
(1) (2) (3) (4) (5) (6)

(1) Series Type;
(2) Dimension：A X C;
(3) Inductance：2R2=2.2μH;
100=10μH;101=100μH;
(4) Inductance Tolerance：K=±10%, M=±20%;
(5) Company Code;
(6) Packaging：packed in embossed carrier tape;

Series / Item	CMLF0301	CMLF0302	CMLF0403	CMLF0502	CMLF0503	CMLF0504	CMLF0703	CMLF0705	CMLF1004	CMLF1004
A(mm)	3.5±0.3	3.5±0.3	4.5±0.3	5.8±0.3	5.8±0.3	5.8±0.3	7.8±0.3	7.8±0.3	10.0±0.3	10.0±0.3
B(mm)	3.0±0.3	3.0±0.3	4.0±0.3	5.2±0.3	5.2±0.3	5.2±0.3	7.0±0.3	7.0±0.3	9.0±0.3	9.0±0.3
C(mm)	1.1±0.3	2.1±0.3	3.2±0.3	2.0±0.3	3.0±0.3	4.5±0.3	3.5±0.3	5.0±0.3	4.0±0.3	5.4±0.3
D(mm)	1.0 Typ	1.0 Typ	1.2 Typ.	1.5 Typ.	1.5 Typ.	1.5 Typ.	2.1 Typ.	2.1 Typ.	2.9 Typ.	2.9 Typ.

◆ Material

Item	Material
a.Core	Ferrite DR Core
b.Wire	Enamelled Copper wire
c.Terminal	Ag+Sn+SnPb



Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ **SPECFICATIONS**

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0301 Series				
CMLF0301-1R0MTT	1.00±20%	100KHz/0.25V	0.08	1.40
CMLF0301-1R5MTT	1.5±20%	100KHz/0.25V	0.13	1.06
CMLF0301-2R2MTT	2.2±20%	100KHz/0.25V	0.19	0.88
CMLF0301-3R3MTT	3.3±20%	100KHz/0.25V	0.27	0.79
CMLF0301-3R9MTT	3.9±20%	100KHz/0.25V	0.32	0.68
CMLF0301-4R7MTT	4.7±20%	100KHz/0.25V	0.38	0.66
CMLF0301-5R6MTT	5.6±20%	100KHz/0.25V	0.39	0.61
CMLF0301-6R8MTT	6.8±20%	100KHz/0.25V	0.49	0.56
CMLF0301-8R2MTT	8.2±20%	100KHz/0.25V	0.63	0.50
CMLF0301-100MTT	10.0±20%	100KHz/0.25V	0.81	0.45
CMLF0301-120MTT	12.0±20%	100KHz/0.25V	0.90	0.40
CMLF0301-150MTT	15.0±20%	100KHz/0.25V	1.06	0.37
CMLF0301-180MTT	18.0±20%	100KHz/0.25V	1.23	0.34
CMLF0301-220MTT	22.0±20%	100KHz/0.25V	1.75	0.31
CMLF0301-270MTT	27.0±20%	100KHz/0.25V	2.11	0.28
CMLF0301-330MTT	33.0±20%	100KHz/0.25V	2.89	0.24
CMLF0301-390MTT	39.0±20%	100KHz/0.25V	3.10	0.23
CMLF0301-470MTT	47.0±20%	100KHz/0.25V	3.51	0.21
CMLF0301-560MTT	56.0±20%	100KHz/0.25V	3.95	0.20
CMLF0301-680MTT	68.0±20%	100KHz/0.25V	5.69	0.18
CMLF0301-820MTT	82.0±20%	100KHz/0.25V	6.58	0.15
CMLF0301-101KTT	100.0±10%	100KHz/0.25V	7.70	0.14
CMLF0302 Series				
CMLF0302-1R0MTT	1.0±20%	100KHz/0.25V	0.04	3.34
CMLF0302-1R2MTT	1.2±20%	100KHz/0.26V	0.04	2.50
CMLF0302-2R2MTT	2.2±20%	100KHz/0.27V	0.12	2.00
CMLF0302-3R3MTT	3.3±20%	100KHz/0.28V	0.11	1.55
CMLF0302-4R7MTT	4.7±20%	100KHz/0.29V	0.17	1.50
CMLF0302-5R6MTT	5.6±20%	100KHz/0.30V	0.19	1.35
CMLF0302-6R8MTT	6.8±20%	100KHz/0.31V	0.22	1.20
CMLF0302-8R2MTT	8.2±20%	100KHz/0.32V	0.25	1.15
CMLF0302-100MTT	10±20%	100KHz/0.33V	0.29	1.05
CMLF0302-150MTT	15±20%	100KHz/0.34V	0.47	0.95

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0302 Series				
CMLF0302-220MTT	22±20%	100KHz/0.25V	0.61	0.90
CMLF0302-330MTT	33±20%	100KHz/0.25V	0.96	0.85
CMLF0302-470MTT	47±20%	100KHz/0.25V	1.50	0.80
CMLF0302-680MTT	68±20%	100KHz/0.25V	2.00	0.78
CMLF0302-820MTT	82±20%	100KHz/0.25V	2.50	0.76
CMLF0302-101MTT	100±20%	100KHz/0.25V	3.00	0.75
CMLF0302-151MTT	150±20%	100KHz/0.25V	4.00	0.73
CMLF0302-221MTT	220±20%	100KHz/0.25V	5.50	0.70
CMLF0302-331MTT	330±20%	100KHz/0.25V	7.00	0.70
CMLF0302-471MTT	470±20%	100KHz/0.25V	12.00	0.69
CMLF0402 Series				
CMLF0402-1R0MTT	1.00±20%	100KHz/0.25V	0.08	2.52
CMLF0402-1R5MTT	1.50±20%	100KHz/0.25V	0.09	2.50
CMLF0402-2R2MTT	2.20±20%	100KHz/0.25V	0.10	2.32
CMLF0402-3R3MTT	3.30±20%	100KHz/0.25V	0.13	2.20
CMLF0402-3R9MTT	3.90±20%	100KHz/0.25V	0.14	1.15
CMLF0402-4R7MTT	4.70±20%	100KHz/0.25V	0.16	1.10
CMLF0402-5R6MTT	5.60±20%	100KHz/0.25V	0.17	1.05
CMLF0402-6R8MTT	6.80±20%	100KHz/0.25V	0.19	0.95
CMLF0402-8R2MTT	8.20±20%	100KHz/0.25V	0.22	0.80
CMLF0402-100KTT	10.0±10%	100KHz/0.25V	0.23	0.75
CMLF0402-120KTT	12.0±10%	100KHz/0.25V	0.26	0.70
CMLF0402-150KTT	15.0±10%	100KHz/0.25V	0.30	0.65
CMLF0402-220KTT	22.0±10%	100KHz/0.25V	0.45	0.55
CMLF0402-330KTT	33.0±10%	100KHz/0.25V	0.75	0.44
CMLF0402-390KTT	39.0±10%	100KHz/0.25V	0.82	0.41
CMLF0402-470KTT	47.0±10%	100KHz/0.25V	0.95	0.38
CMLF0402-560KTT	56.0±10%	100KHz/0.25V	1.20	0.35
CMLF0402-680KTT	68.0±10%	100KHz/0.25V	1.40	0.31
CMLF0402-820KTT	82.0±10%	100KHz/0.25V	1.75	0.27
CMLF0402-101KTT	100.0±10%	100KHz/0.25V	2.10	0.25
CMLF0402-121KTT	120.0±10%	100KHz/0.25V	2.70	0.22
CMLF0402-151KTT	150.0±10%	100KHz/0.25V	3.10	0.19

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ **SPECFICATIONS**

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0402 Series				
CMLF0402-181KTT	180.0±10%	100KHz/0.25V	3.70	0.18
CMLF0402-221KTT	220.0±10%	100KHz/0.25V	4.40	0.17
CMLF0402-271KTT	270.0±10%	100KHz/0.25V	5.20	0.15
CMLF0402-331KTT	330.0±10%	100KHz/0.25V	6.50	0.14
CMLF0402-391KTT	390.0±10%	100KHz/0.25V	7.30	0.13
CMLF0402-471KTT	470.0±10%	100KHz/0.25V	7.40	0.12
CMLF0402-561KTT	560.0±10%	100KHz/0.25V	7.50	0.11
CMLF0403 Series				
CMLF0403-1R0MTT	1.00±20%	100KHz/0.25V	0.03	3.80
CMLF0403-1R5MTT	1.50±20%	100KHz/0.25V	0.04	3.22
CMLF0403-2R2MTT	2.20±20%	100KHz/0.25V	0.05	2.90
CMLF0403-3R3MTT	3.30±20%	100KHz/0.25V	0.06	2.15
CMLF0403-3R9MTT	3.90±20%	100KHz/0.25V	0.08	1.98
CMLF0403-4R7KTT	4.70±10%	100KHz/0.25V	0.09	1.80
CMLF0403-5R6KTT	5.60±10%	100KHz/0.25V	0.10	1.70
CMLF0403-6R8KTT	6.80±10%	100KHz/0.25V	0.12	1.51
CMLF0403-8R2KTT	8.20±10%	100KHz/0.25V	0.13	1.46
CMLF0403-100KTT	10.0±10%	100KHz/0.25V	0.18	1.35
CMLF0403-120KTT	12.0±10%	100KHz/0.25V	0.21	1.05
CMLF0403-150KTT	15.0±10%	100KHz/0.25V	0.24	0.92
CMLF0403-220KTT	22.0±10%	100KHz/0.25V	0.38	0.76
CMLF0403-330KTT	33.0±10%	100KHz/0.25V	0.54	0.64
CMLF0403-390KTT	39.0±10%	100KHz/0.25V	0.59	0.59
CMLF0403-470KTT	47.0±10%	100KHz/0.25V	0.84	0.54
CMLF0403-560KTT	56.0±10%	100KHz/0.25V	0.94	0.50
CMLF0403-680KTT	68.0±10%	100KHz/0.25V	1.12	0.46
CMLF0403-820KTT	82.0±10%	100KHz/0.25V	1.35	0.45
CMLF0403-101KTT	100.0±10%	100KHz/0.25V	1.52	0.44
CMLF0403-121KTT	120.0±10%	100KHz/0.25V	1.80	0.43
CMLF0403-151KTT	150.0±10%	100KHz/0.25V	2.00	0.42
CMLF0403-181KTT	180.0±10%	100KHz/0.25V	3.20	0.38
CMLF0403-221KTT	220.0±10%	100KHz/0.25V	3.40	0.36
CMLF0403-271KTT	270.0±10%	100KHz/0.25V	3.90	0.34

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0403 Series				
CMLF0403-331KTT	330.0±10%	100KHz/0.25V	5.30	0.28
CMLF0403-391KTT	390.0±10%	100KHz/0.25V	5.90	0.24
CMLF0403-471KTT	470.0±10%	100KHz/0.25V	6.80	0.21
CMLF0403-561KTT	560.0±10%	100KHz/0.25V	8.50	0.20
CMLF0403-681KTT	680.0±10%	100KHz/0.25V	10.00	0.18
CMLF0403-821KTT	820.0±10%	100KHz/0.25V	13.40	0.15
CMLF0502 Series				
CMLF0502-1R0MTT	1.00±20%	100KHz/0.25V	0.05	4.50
CMLF0502-1R5MTT	1.50±20%	100KHz/0.25V	0.06	4.00
CMLF0502-1R8MTT	1.80±20%	100KHz/0.25V	0.07	3.70
CMLF0502-2R2MTT	2.20±20%	100KHz/0.25V	0.07	3.50
CMLF0502-2R7MTT	2.70±20%	100KHz/0.25V	0.08	3.20
CMLF0502-3R3MTT	3.30±20%	100KHz/0.25V	0.10	2.70
CMLF0502-3R9MTT	3.90±20%	100KHz/0.25V	0.12	2.40
CMLF0502-4R7MTT	4.70±20%	100KHz/0.25V	0.14	2.00
CMLF0502-5R6MTT	5.60±20%	100KHz/0.25V	0.15	1.80
CMLF0502-6R8MTT	6.80±20%	100KHz/0.25V	0.16	1.50
CMLF0502-100MTT	10.0±20%	100KHz/0.25V	0.20	1.30
CMLF0502-120MTT	12.0±20%	100KHz/0.25V	0.23	1.10
CMLF0502-150MTT	15.0±20%	100KHz/0.25V	0.25	1.05
CMLF0502-180MTT	18.0±20%	100KHz/0.25V	0.30	1.00
CMLF0502-220MTT	22.0±20%	100KHz/0.25V	0.35	0.90
CMLF0502-270MTT	27.0±20%	100KHz/0.25V	0.40	0.85
CMLF0502-330MTT	33.0±20%	100KHz/0.25V	0.50	0.75
CMLF0502-390MTT	39.0±20%	100KHz/0.25V	0.55	0.70
CMLF0502-470MTT	47.0±20%	100KHz/0.25V	0.65	0.60
CMLF0502-560MTT	56.0±20%	100KHz/0.25V	0.75	0.55
CMLF0502-680MTT	68.0±20%	100KHz/0.25V	0.95	0.50
CMLF0502-820MTT	82.0±20%	100KHz/0.25V	1.20	0.45
CMLF0502-101KTT	100.0±10%	100KHz/0.25V	1.40	0.40
CMLF0502-121KTT	120.0±10%	100KHz/0.25V	1.75	0.35
CMLF0502-151KTT	150.0±10%	100KHz/0.25V	2.00	0.25
CMLF0502-181KTT	180.0±10%	100KHz/0.25V	2.60	0.22

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ **SPECFICATIONS**

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0502 Series				
CMLF0502-221KTT	220.0±10%	100KHz/0.25V	3.00	0.20
CMLF0502-271KTT	270.0±10%	100KHz/0.25V	3.70	0.18
CMLF0502-331KTT	330.0±10%	100KHz/0.25V	4.30	0.17
CMLF0502-391KTT	390.0±10%	100KHz/0.25V	6.00	0.16
CMLF0502-471KTT	470.0±10%	100KHz/0.25V	6.70	0.15
CMLF0502-561KTT	560.0±10%	100KHz/0.25V	8.15	0.14
CMLF0502-681KTT	680.0±10%	100KHz/0.25V	8.98	0.13
CMLF0502-821KTT	820.0±10%	100KHz/0.25V	11.24	0.12
CMLF0502-102KTT	1000.0±10%	100KHz/0.25V	15.25	0.11
CMLF0503 Series				
CMLF0503-1R0MTT	1.00±20%	100KHz/0.25V	0.03	4.50
CMLF0503-1R5MTT	1.50±20%	100KHz/0.25V	0.03	4.10
CMLF0503-2R2MTT	2.20±20%	100KHz/0.25V	0.03	3.50
CMLF0503-2R7MTT	2.70±20%	100KHz/0.25V	0.04	3.20
CMLF0503-3R3MTT	3.30±20%	100KHz/0.25V	0.05	2.80
CMLF0503-4R7MTT	4.70±20%	100KHz/0.25V	0.07	2.50
CMLF0503-5R6MTT	5.60±20%	100KHz/0.25V	0.08	2.40
CMLF0503-6R8MTT	6.80±20%	100KHz/0.25V	0.09	2.20
CMLF0503-100MTT	10.0±20%	100KHz/0.25V	0.12	1.90
CMLF0503-120MTT	12.0±20%	100KHz/0.25V	0.13	1.75
CMLF0503-150MTT	15.0±20%	100KHz/0.25V	0.15	1.70
CMLF0503-220KTT	22.0±10%	100KHz/0.25V	0.22	1.50
CMLF0503-330KTT	33.0±10%	100KHz/0.25V	0.30	1.10
CMLF0503-390KTT	39.0±10%	100KHz/0.25V	0.40	1.00
CMLF0503-470KTT	47.0±10%	100KHz/0.25V	0.43	0.90
CMLF0503-560KTT	56.0±10%	100KHz/0.25V	0.50	0.85
CMLF0503-680KTT	68.0±10%	100KHz/0.25V	0.60	0.80
CMLF0503-820KTT	82.0±10%	100KHz/0.25V	0.80	0.65
CMLF0503-101KTT	100.0±10%	100KHz/0.25V	0.90	0.60
CMLF0503-121KTT	120.0±10%	100KHz/0.25V	1.00	0.58
CMLF0503-151KTT	150.0±10%	100KHz/0.25V	1.30	0.43
CMLF0503-221KTT	220.0±10%	100KHz/0.25V	2.00	0.38
CMLF0503-271KTT	270.0±10%	100KHz/0.25V	2.50	0.35

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0503 Series				
CMLF0503-331KTT	330.0±10%	100KHz/0.25V	3.20	0.28
CMLF0503-391KTT	390.0±10%	100KHz/0.25V	3.50	0.26
CMLF0503-471KTT	470.0±10%	100KHz/0.25V	4.20	0.20
CMLF0503-561KTT	560.0±10%	100KHz/0.25V	4.50	0.19
CMLF0503-681KTT	680.0±10%	100KHz/0.25V	6.00	0.18
CMLF0504 Series				
CMLF0504-1R0MTT	1.00±20%	100KHz/0.25V	0.02	6.10
CMLF0504-1R2MTT	1.20±20%	100KHz/0.25V	0.02	5.70
CMLF0504-1R5MTT	1.50±20%	100KHz/0.25V	0.03	5.10
CMLF0504-1R8MTT	1.80±20%	100KHz/0.25V	0.03	4.90
CMLF0504-2R2MTT	2.20±20%	100KHz/0.25V	0.04	4.80
CMLF0504-3R3MTT	3.30±20%	100KHz/0.25V	0.05	4.20
CMLF0504-4R7MTT	4.70±20%	100KHz/0.25V	0.06	3.30
CMLF0504-5R6MTT	5.60±20%	100KHz/0.25V	0.07	3.10
CMLF0504-6R8MTT	6.80±20%	100KHz/0.25V	0.08	3.00
CMLF0504-8R2MTT	8.20±20%	100KHz/0.25V	0.09	2.70
CMLF0504-100KTT	10.0±10%	100KHz/0.25V	0.10	2.50
CMLF0504-120KTT	12.0±10%	100KHz/0.25V	0.12	2.30
CMLF0504-150KTT	15.0±10%	100KHz/0.25V	0.14	2.20
CMLF0504-180KTT	18.0±10%	100KHz/0.25V	0.15	1.83
CMLF0504-220KTT	22.0±10%	100KHz/0.25V	0.18	1.40
CMLF0504-270KTT	27.0±10%	100KHz/0.25V	0.20	1.37
CMLF0504-330KTT	33.0±10%	100KHz/0.25V	0.23	1.28
CMLF0504-390KTT	39.0±10%	100KHz/0.25V	0.32	0.80
CMLF0504-470KTT	47.0±10%	100KHz/0.25V	0.37	0.72
CMLF0504-560KTT	56.0±10%	100KHz/0.25V	0.42	0.68
CMLF0504-680KTT	68.0±10%	100KHz/0.25V	0.46	0.61
CMLF0504-820KTT	82.0±10%	100KHz/0.25V	0.60	0.58
CMLF0504-101KTT	100.0±10%	100KHz/0.25V	0.70	0.52
CMLF0504-121KTT	120.0±10%	100KHz/0.25V	0.93	0.48
CMLF0504-151KTT	150.0±10%	100KHz/0.25V	1.10	0.40
CMLF0504-181KTT	180.0±10%	100KHz/0.25V	1.38	0.38
CMLF0504-221KTT	220.0±10%	100KHz/0.25V	1.57	0.35

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ **SPECFICATIONS**

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0504 Series				
CMLF0504-271KTT	270.0±10%	100KHz/0.25V	1.65	0.32
CMLF0504-331KTT	330.0±10%	100KHz/0.25V	1.70	0.28
CMLF0504-391KTT	390.0±10%	100KHz/0.25V	1.80	0.26
CMLF0504-471KTT	470.0±10%	100KHz/0.25V	2.30	0.23
CMLF0504-561KTT	560.0±10%	100KHz/0.25V	2.50	0.20
CMLF0504-681KTT	680.0±10%	100KHz/0.25V	3.00	0.19
CMLF0504-821KTT	820.0±10%	100KHz/0.25V	4.50	0.16
CMLF0504-102KTT	1000.0±10%	100KHz/0.25V	4.80	0.14
CMLF0703 Series				
CMLF0703-1R0MTT	1.00±20%	100KHz/0.25V	0.03	8.85
CMLF0703-1R5MTT	1.50±20%	100KHz/0.26V	0.05	6.96
CMLF0703-2R2MTT	2.20±20%	100KHz/0.27V	0.05	4.88
CMLF0703-3R3MTT	3.30±20%	100KHz/0.28V	0.06	3.71
CMLF0703-4R7MTT	4.70±20%	100KHz/0.29V	0.07	3.52
CMLF0703-5R6MTT	5.60±20%	100KHz/0.30V	0.07	2.86
CMLF0703-6R8MTT	6.80±20%	100KHz/0.31V	0.08	2.55
CMLF0703-100MTT	10.0±20%	100KHz/0.32V	0.08	1.44
CMLF0703-150MTT	15.0±20%	100KHz/0.33V	0.10	1.24
CMLF0703-180MTT	18.0±20%	100KHz/0.34V	0.11	1.12
CMLF0703-220MTT	22.0±20%	100KHz/0.35V	0.13	1.07
CMLF0703-330MTT	33.0±20%	100KHz/0.36V	0.17	0.85
CMLF0703-390MTT	39.0±20%	100KHz/0.37V	0.22	0.74
CMLF0703-470MTT	47.0±20%	100KHz/0.38V	0.25	0.68
CMLF0703-560MTT	56.0±20%	100KHz/0.39V	0.28	0.64
CMLF0703-680MTT	68.0±20%	100KHz/0.40V	0.33	0.59
CMLF0703-820MTT	82.0±20%	100KHz/0.41V	0.41	0.54
CMLF0703-101KTT	100.0±10%	100KHz/0.42V	0.48	0.51
CMLF0703-151KTT	150.0±10%	100KHz/0.43V	0.75	0.40
CMLF0703-181KTT	180.0±10%	100KHz/0.44V	1.02	0.36
CMLF0703-221KTT	220.0±10%	100KHz/0.45V	1.20	0.31
CMLF0703-271KTT	270.0±10%	100KHz/0.46V	1.31	0.29
CMLF0703-331KTT	330.0±10%	100KHz/0.47V	1.50	0.28
CMLF0703-391KTT	390.0±10%	100KHz/0.48V	1.80	0.26

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ **SPECFICATIONS**

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0703 Series				
CMLF0703-391KTT	390.0±10%	100KHz/0.25V	1.80	0.26
CMLF0703-471KTT	470.0±10%	100KHz/0.25V	1.95	0.23
CMLF0703-561KTT	560.0±10%	100KHz/0.25V	2.30	0.21
CMLF0703-681KTT	680.0±10%	100KHz/0.25V	2.70	0.13
CMLF0703-821KTT	820.0±10%	100KHz/0.25V	3.20	0.11
CMLF0703-102KTT	1000.0±10%	100KHz/0.25V	3.80	0.08
CMLF0705 Series				
CMLF0705-1R0MTT	1.00±20%	100KHz/0.25V	0.03	11.25
CMLF0705-1R5MTT	1.50±20%	100KHz/0.25V	0.04	8.35
CMLF0705-2R2MTT	2.20±20%	100KHz/0.25V	0.05	6.52
CMLF0705-2R7MTT	2.70±20%	100KHz/0.25V	0.06	6.06
CMLF0705-3R3MTT	3.30±20%	100KHz/0.25V	0.06	5.26
CMLF0705-4R7MTT	4.70±20%	100KHz/0.25V	0.07	4.54
CMLF0705-5R6MTT	5.60±20%	100KHz/0.25V	0.07	4.25
CMLF0705-6R8MTT	6.80±20%	100KHz/0.25V	0.07	3.45
CMLF0705-8R2MTT	8.20±20%	100KHz/0.25V	0.07	3.30
CMLF0705-100KTT	10.0±10%	100KHz/0.25V	0.07	3.20
CMLF0705-120KTT	12.0±10%	100KHz/0.25V	0.08	2.70
CMLF0705-150KTT	15.0±10%	100KHz/0.25V	0.09	2.00
CMLF0705-180KTT	18.0±10%	100KHz/0.25V	0.10	1.90
CMLF0705-220KTT	22.0±10%	100KHz/0.25V	0.11	1.70
CMLF0705-330KTT	33.0±10%	100KHz/0.25V	0.13	1.50
CMLF0705-390KTT	39.0±10%	100KHz/0.25V	0.16	1.40
CMLF0705-470KTT	47.0±10%	100KHz/0.25V	0.18	1.30
CMLF0705-560KTT	56.0±10%	100KHz/0.25V	0.24	0.94
CMLF0705-680KTT	68.0±10%	100KHz/0.25V	0.28	0.85
CMLF0705-820KTT	82.0±10%	100KHz/0.25V	0.37	0.78
CMLF0705-101KTT	100.0±10%	100KHz/0.25V	0.43	0.72
CMLF0705-151KTT	150.0±10%	100KHz/0.25V	0.64	0.58
CMLF0705-181KTT	180.0±10%	100KHz/0.25V	0.71	0.51
CMLF0705-221KTT	220.0±10%	100KHz/0.25V	0.96	0.49
CMLF0705-331KTT	330.0±10%	100KHz/0.25V	1.26	0.40
CMLF0705-391KTT	390.0±10%	100KHz/0.25V	1.77	0.36

Drum Core Surface Mount Unshielded Power Inductors

CMLF Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF0705 Series				
CMLF0705-471KTT	470.0±10%	100KHz/0.25V	1.96	0.34
CMLF0705-561KTT	560.0±10%	100KHz/0.25V	2.00	0.33
CMLF0705-681KTT	680.0±10%	100KHz/0.25V	2.20	0.32
CMLF0705-821KTT	820.0±10%	100KHz/0.25V	2.90	0.25
CMLF0705-102KTT	1000.0±10%	100KHz/0.25V	3.90	0.20
CMLF1004 Series				
CMLF1004-1R0MTT	1.00±20%	100KHz/0.25V	0.02	12.25
CMLF1004-1R5MTT	1.50±20%	100KHz/0.25V	0.03	9.86
CMLF1004-2R2MTT	2.20±20%	100KHz/0.25V	0.03	7.48
CMLF1004-3R3MTT	3.30±20%	100KHz/0.25V	0.04	6.21
CMLF1004-4R7MTT	4.70±20%	100KHz/0.25V	0.04	5.43
CMLF1004-6R8MTT	6.80±20%	100KHz/0.25V	0.05	4.56
CMLF1004-100MTT	10.0±20%	100KHz/0.25V	0.05	2.38
CMLF1004-150MTT	15.0±20%	100KHz/0.25V	0.07	1.87
CMLF1004-180MTT	18.0±20%	100KHz/0.25V	0.08	1.73
CMLF1004-220MTT	22.0±20%	100KHz/0.25V	0.09	1.60
CMLF1004-330MTT	33.0±20%	100KHz/0.25V	0.12	1.26
CMLF1004-390MTT	39.0±20%	100KHz/0.25V	0.15	1.20
CMLF1004-470MTT	47.0±20%	100KHz/0.25V	0.17	1.10
CMLF1004-560MTT	56.0±20%	100KHz/0.25V	0.20	1.01
CMLF1004-680MTT	68.0±20%	100KHz/0.25V	0.22	0.91
CMLF1004-820MTT	82.0±20%	100KHz/0.25V	0.25	0.85
CMLF1004-101KTT	100.0±10%	100KHz/0.25V	0.34	0.74
CMLF1004-151KTT	150.0±10%	100KHz/0.25V	0.54	0.61
CMLF1004-221KTT	220.0±10%	100KHz/0.25V	0.72	0.53
CMLF1004-271KTT	270.0±10%	100KHz/0.25V	0.95	0.45
CMLF1004-331KTT	330.0±10%	100KHz/0.25V	1.10	0.42
CMLF1004-391KTT	390.0±10%	100KHz/0.25V	1.25	0.38
CMLF1004-471KTT	470.0±10%	100KHz/0.25V	1.53	0.35
CMLF1004-561KTT	560.0±10%	100KHz/0.25V	1.90	0.32
CMLF1004-681KTT	680.0±10%	100KHz/0.25V	2.20	0.31
CMLF1004-821KTT	820.0±10%	100KHz/0.25V	2.70	0.30

Drum Core Surface Mount Unshielded Power Inductors
CMLF Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLF1005 Series				
CMLF1005-1R0MTT	1.00±20%	100KHz/0.25V	0.01	15.35
CMLF1005-1R5MTT	1.50±20%	100KHz/0.25V	0.02	11.58
CMLF1005-2R2MTT	2.20±20%	100KHz/0.25V	0.02	9.24
CMLF1005-3R3MTT	3.30±20%	100KHz/0.25V	0.03	7.36
CMLF1005-4R7MTT	4.70±20%	100KHz/0.25V	0.03	5.67
CMLF1005-6R8MTT	6.80±20%	100KHz/0.25V	0.04	4.52
CMLF1005-100KTT	10.0±10%	100KHz/0.25V	0.06	4.00
CMLF1005-150KTT	15.0±10%	100KHz/0.25V	0.08	3.50
CMLF1005-220KTT	22.0±10%	100KHz/0.25V	0.10	2.35
CMLF1005-330KTT	33.0±10%	100KHz/0.25V	0.12	1.90
CMLF1005-470KTT	47.0±10%	100KHz/0.25V	0.17	1.28
CMLF1005-560KTT	56.0±10%	100KHz/0.25V	0.19	1.17
CMLF1005-680KTT	68.0±10%	100KHz/0.25V	0.22	1.11
CMLF1005-820KTT	82.0±10%	100KHz/0.25V	0.25	1.00
CMLF1005-101KTT	100.0±10%	100KHz/0.25V	0.35	0.97
CMLF1005-151KTT	150.0±10%	100KHz/0.25V	0.47	0.78
CMLF1005-181KTT	180.0±10%	100KHz/0.25V	0.63	0.72
CMLF1005-221KTT	220.0±10%	100KHz/0.25V	0.73	0.66
CMLF1005-271KTT	270.0±10%	100KHz/0.25V	0.97	0.57
CMLF1005-331KTT	330.0±10%	100KHz/0.25V	1.15	0.52
CMLF1005-391KTT	390.0±10%	100KHz/0.25V	1.30	0.48
CMLF1005-471KTT	470.0±10%	100KHz/0.25V	1.48	0.42
CMLF1005-561KTT	560.0±10%	100KHz/0.25V	1.90	0.33
CMLF1005-681KTT	680.0±10%	100KHz/0.25V	2.25	0.28
CMLF1005-821KTT	820.0±10%	100KHz/0.25V	2.55	0.24

◆ Package

Size EIA (EIA)	CMLF0301	CMLF0302	CMLF0402	CMLF0403
Standard Packing Quantity (pcs / reel)	3,000	3,000	2,000	2,000
	CMLF0502	CMLF0503	CMLF0504	CMLF0703
	2,000	2,000	1,500	1,000
	CMLF0705	CMLF1004	CMLF1005	
	1,000	1,000	1,000	

Shielded High Current SMD Power Inductor
CMLH-S Series

◆ Features

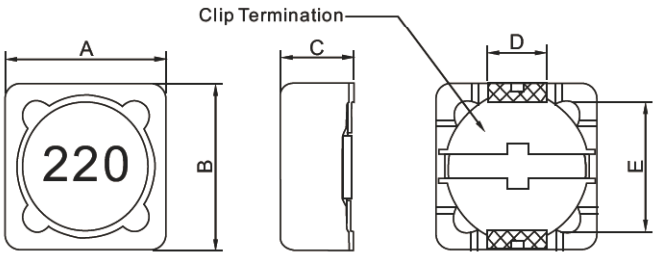
1、Magnetic Shielded surface mount inductor with high current rating;
2、Low resistance to keep power loss minimum;
3、The products contain no lead and also support lead-free soldering.



◆ Applications

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

◆ Shape & Dimensions



◆ Lead Free Part Numbering

CMLH 1204 S 100 M T T
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Dimension：A X C;
(3) Material Code;
(4) Inductance：2R2=2.2μH;100=10μH;
101=100μH;
(5) Inductance Tolerance：M=±20%,
Y=±30%;
(6) Company Code;
(7) Packaging：packed in embossed carrier tape;

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
CMLH0703	7.3±0.3	7.3±0.3	3.5 Max.	1.8±0.2	5.0±0.2
CMLH0704	7.3±0.3	7.3±0.3	4.5 Max.	1.8±0.2	5.0±0.2
CMLH1204	12.0±0.3	12.0±0.3	5.0 Max.	5.0±0.2	7.6±0.2
CMLH1205	12.0±0.3	12.0±0.3	6.0 Max.	5.0±0.2	7.6±0.2
CMLH1207	12.0±0.3	12.0±0.3	8.0 Max.	5.0±0.2	7.6±0.2
CMLH1209	12.0±0.3	12.0±0.3	9.0 Max.	5.0±0.2	7.6±0.2

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLH0703S Series				
CMLH0703SR47MTT	0.47±20%	0.25V/1K	17	10.50
CMLH0703S1R0MTT	1.0±20%	0.25V/1K	17	7.00
CMLH0703S1R5MTT	1.5±20%	0.25V/1K	17	6.00
CMLH0703S2R2MTT	2.2±20%	0.25V/1K	25	4.50
CMLH0703S3R3MTT	3.3±20%	0.25V/1K	25	4.20
CMLH0703S4R7MTT	4.7±20%	0.25V/1K	58	3.65
CMLH0703S6R8MTT	6.8±20%	0.25V/1K	58	3.00
CMLH0703S8R2MTT	8.2±20%	0.25V/1K	63	2.50
CMLH0703S100MTT	10±20%	0.25V/1K	69	2.30
CMLH0703S120MTT	12±20%	0.25V/1K	83	2.20
CMLH0703S150MTT	15±20%	0.25V/1K	108	2.00
CMLH0703S180MTT	18±20%	0.25V/1K	125	1.80
CMLH0703S220MTT	22±20%	0.25V/1K	158	1.50
CMLH0703S330MTT	33±20%	0.25V/1K	232	1.20
CMLH0703S390MTT	39±20%	0.25V/1K	282	0.90
CMLH0703S400MTT	40±20%	0.25V/1K	291	0.90
CMLH0703S470MTT	47±20%	0.25V/1K	374	0.80
CMLH0703S560MTT	56±20%	0.25V/1K	415	0.70
CMLH0703S680MTT	68±20%	0.25V/1K	432	0.61
CMLH0703S820MTT	82±20%	0.25V/1K	573	0.55
CMLH0703S101MTT	100±20%	0.25V/1K	656	0.50
CMLH0703S151MTT	150±20%	0.25V/1K	830	0.46
CMLH0703S181MTT	180±20%	0.25V/1K	913	0.39
CMLH0703S221MTT	220±20%	0.25V/1K	1370	0.38
CMLH0703S271MTT	270±20%	0.25V/1K	1917	0.36
CMLH0703S331MTT	330±20%	0.25V/1K	2175	0.35
CMLH0703S471MTT	470±20%	0.25V/1K	3469	0.32
CMLH0703S681MTT	680±20%	0.25V/1K	4756	0.30
CMLH0703S821MTT	820±20%	0.25V/1K	5810	0.28
CMLH0703S102MTT	1000±20%	0.25V/1K	8018	0.26

Shielded High Current SMD Power Inductor
CMLH-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLH0704S Series				
CMLH0704S1R0MTT	1.0±20%	0.25V/1K	12	9.00
CMLH0704S1R2MTT	1.2±20%	0.25V/1K	21	8.00
CMLH0704S1R5MTT	1.5±20%	0.25V/1K	25	8.00
CMLH0704S1R8MTT	1.8±20%	0.25V/1K	27	7.00
CMLH0704S2R2MTT	2.2±20%	0.25V/1K	29	6.20
CMLH0704S2R7MTT	2.7±20%	0.25V/1K	33	5.50
CMLH0704S3R3MTT	3.3±20%	0.25V/1K	37	4.70
CMLH0704S4R7MTT	4.7±20%	0.25V/1K	39	3.50
CMLH0704S6R2MTT	6.2±20%	0.25V/1K	42	3.40
CMLH0704S6R8MTT	6.8±20%	0.25V/1K	42	3.40
CMLH0704S8R2MTT	8.2±20%	0.25V/1K	44	3.10
CMLH0704S100MTT	10±20%	0.25V/1K	46	3.00
CMLH0704S150MTT	15±20%	0.25V/1K	67	2.50
CMLH0704S180MTT	18±20%	0.25V/1K	83	2.00
CMLH0704S220MTT	22±20%	0.25V/1K	91	1.95
CMLH0704S270MTT	27±20%	0.25V/1K	106	1.50
CMLH0704S330MTT	33±20%	0.25V/1K	208	1.20
CMLH0704S390MTT	39±20%	0.25V/1K	249	1.10
CMLH0704S470MTT	47±20%	0.25V/1K	266	1.00
CMLH0704S560MTT	56±20%	0.25V/1K	291	1.00
CMLH0704S680MTT	68±20%	0.25V/1K	315	0.90
CMLH0704S101MTT	100±20%	0.25V/1K	506	0.85
CMLH0704S121MTT	120±20%	0.25V/1K	540	0.85
CMLH0704S151MTT	150±20%	0.25V/1K	730	0.75
CMLH0704S171MTT	170±20%	0.25V/1K	1079	0.74
CMLH0704S181MTT	180±20%	0.25V/1K	1121	0.70
CMLH0704S221MTT	220±20%	0.25V/1K	1162	0.62
CMLH0704S271MTT	270±20%	0.25V/1K	1245	0.55
CMLH0704S331MTT	330±20%	0.25V/1K	1245	0.50
CMLH0704S391MTT	390±20%	0.25V/1K	1494	0.48
CMLH0704S471MTT	470±20%	0.25V/1K	2158	0.40

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLH1204S Series				
CMLH1204S3R3MTT	3.3±20%	0.25V/1K	15	6.50
CMLH1204S4R7MTT	4.7±20%	0.25V/1K	18	5.70
CMLH1204S6R8MTT	6.8±20%	0.25V/1K	23	4.90
CMLH1204S8R2MTT	8.2±20%	0.25V/1K	26	4.60
CMLH1204S100MTT	10±20%	0.25V/1K	28	4.50
CMLH1204S120MTT	12±20%	0.25V/1K	38	4.10
CMLH1204S150MTT	15±20%	0.25V/1K	50	3.20
CMLH1204S180MTT	18±20%	0.25V/1K	57	3.10
CMLH1204S220MTT	22±20%	0.25V/1K	66	2.90
CMLH1204S270MTT	27±20%	0.25V/1K	80	2.80
CMLH1204S330MTT	33±20%	0.25V/1K	97	2.70
CMLH1204S390MTT	39±20%	0.25V/1K	132	2.10
CMLH1204S470MTT	47±20%	0.25V/1K	160	1.90
CMLH1204S560MTT	56±20%	0.25V/1K	190	1.80
CMLH1204S680MTT	68±20%	0.25V/1K	220	1.50
CMLH1204S820MTT	82±20%	0.25V/1K	260	1.30
CMLH1204S101MTT	100±20%	0.25V/1K	308	1.20
CMLH1204S121MTT	120±20%	0.25V/1K	380	1.10
CMLH1204S151MTT	150±20%	0.25V/1K	530	0.95
CMLH1204S181MTT	180±20%	0.25V/1K	620	0.85
CMLH1204S221MTT	220±20%	0.25V/1K	700	0.80
CMLH1204S271MTT	270±20%	0.25V/1K	870	0.60
CMLH1204S331MTT	330±20%	0.25V/1K	990	0.50
CMLH1205S Series				
CMLH1205S1R5MTT	1.5±20%	0.25V/1K	12	8.00
CMLH1205S2R2MTT	2.2±20%	0.25V/1K	14	7.00
CMLH1205S3R3MTT	3.3±20%	0.25V/1K	17	6.00
CMLH1205S4R7MTT	4.7±20%	0.25V/1K	20	5.00
CMLH1205S6R8MTT	6.8±20%	0.25V/1K	21	4.50
CMLH1205S7R5MTT	7.5±20%	0.25V/1K	24	4.30
CMLH1205S100MTT	10±20%	0.25V/1K	25	4.00
CMLH1205S120MTT	12±20%	0.25V/1K	27	3.50

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLH1205S Series				
CMLH1205S150MTT	15±20%	0.25V/1K	30	3.30
CMLH1205S180MTT	18±20%	0.25V/1K	34	3.00
CMLH1205S220MTT	22±20%	0.25V/1K	36	2.80
CMLH1205S270MTT	27±20%	0.25V/1K	51	2.30
CMLH1205S330MTT	33±20%	0.25V/1K	57	2.10
CMLH1205S390MTT	39±20%	0.25V/1K	68	2.00
CMLH1205S470MTT	47±20%	0.25V/1K	75	1.80
CMLH1205S560MTT	56±20%	0.25V/1K	110	1.70
CMLH1205S680MTT	68±20%	0.25V/1K	120	1.50
CMLH1205S820MTT	82±20%	0.25V/1K	140	1.40
CMLH1205S101MTT	100±20%	0.25V/1K	160	1.30
CMLH1205S121MTT	120±20%	0.25V/1K	170	1.10
CMLH1205S151MTT	150±20%	0.25V/1K	230	1.00
CMLH1205S181MTT	180±20%	0.25V/1K	290	0.90
CMLH1205S221MTT	220±20%	0.25V/1K	400	0.80
CMLH1205S271MTT	270±20%	0.25V/1K	460	0.75
CMLH1205S331MTT	330±20%	0.25V/1K	510	0.68
CMLH1205S391MTT	390±20%	0.25V/1K	690	0.65
CMLH1205S471MTT	470±20%	0.25V/1K	770	0.58
CMLH1205S561MTT	560±20%	0.25V/1K	860	0.54
CMLH1205S681MTT	680±20%	0.25V/1K	1200	0.48
CMLH1205S821MTT	820±20%	0.25V/1K	1340	0.43
CMLH1205S102MTT	1000±20%	0.25V/1K	1530	0.40
CMLH1207S Series				
CMLH1207S1R5MTT	1.5±20%	0.25V/1K	7	10.00
CMLH1207S2R2MTT	2.2±20%	0.25V/1K	11.5	8.00
CMLH1207S3R3MTT	3.3±20%	0.25V/1K	13.5	7.50
CMLH1207S3R9MTT	3.9±20%	0.25V/1K	14.5	7.00
CMLH1207S4R7MTT	4.7±20%	0.25V/1K	15.8	6.80
CMLH1207S6R8MTT	6.8±20%	0.25V/1K	17.6	6.60
CMLH1207S100MTT	10±20%	0.25V/1K	21.6	5.40
CMLH1207S120MTT	12±20%	0.25V/1K	24.3	4.90

Shielded High Current SMD Power Inductor
CMLH-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLH0704S Series				
CMLH0704S1R0MTT	1.0±20%	0.25V/1K	12	9.00
CMLH0704S1R2MTT	1.2±20%	0.25V/1K	21	8.00
CMLH0704S1R5MTT	1.5±20%	0.25V/1K	25	8.00
CMLH0704S1R8MTT	1.8±20%	0.25V/1K	27	7.00
CMLH0704S2R2MTT	2.2±20%	0.25V/1K	29	6.20
CMLH0704S2R7MTT	2.7±20%	0.25V/1K	33	5.50
CMLH0704S3R3MTT	3.3±20%	0.25V/1K	37	4.70
CMLH0704S4R7MTT	4.7±20%	0.25V/1K	39	3.50
CMLH0704S6R2MTT	6.2±20%	0.25V/1K	42	3.40
CMLH0704S6R8MTT	6.8±20%	0.25V/1K	42	3.40
CMLH0704S8R2MTT	8.2±20%	0.25V/1K	44	3.10
CMLH0704S100MTT	10±20%	0.25V/1K	46	3.00
CMLH0704S150MTT	15±20%	0.25V/1K	67	2.50
CMLH0704S180MTT	18±20%	0.25V/1K	83	2.00
CMLH0704S220MTT	22±20%	0.25V/1K	91	1.95
CMLH0704S270MTT	27±20%	0.25V/1K	106	1.50
CMLH0704S330MTT	33±20%	0.25V/1K	208	1.20
CMLH0704S390MTT	39±20%	0.25V/1K	249	1.10
CMLH0704S470MTT	47±20%	0.25V/1K	266	1.00
CMLH0704S560MTT	56±20%	0.25V/1K	291	1.00
CMLH0704S680MTT	68±20%	0.25V/1K	315	0.90
CMLH0704S101MTT	100±20%	0.25V/1K	506	0.85
CMLH0704S121MTT	120±20%	0.25V/1K	540	0.85
CMLH0704S151MTT	150±20%	0.25V/1K	730	0.75
CMLH0704S171MTT	170±20%	0.25V/1K	1079	0.74
CMLH0704S181MTT	180±20%	0.25V/1K	1121	0.70
CMLH0704S221MTT	220±20%	0.25V/1K	1162	0.62
CMLH0704S271MTT	270±20%	0.25V/1K	1245	0.55
CMLH0704S331MTT	330±20%	0.25V/1K	1245	0.50
CMLH0704S391MTT	390±20%	0.25V/1K	1494	0.48
CMLH0704S471MTT	470±20%	0.25V/1K	2158	0.40

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLH1207S Series				
CMLH1207S150MTT	15±20%	0.25V/1K	27	4.60
CMLH1207S180MTT	18±20%	0.25V/1K	39.2	3.90
CMLH1207S220MTT	22±20%	0.25V/1K	43.2	3.60
CMLH1207S270MTT	27±20%	0.25V/1K	45.9	3.40
CMLH1207S330MTT	33±20%	0.25V/1K	64.8	3.00
CMLH1207S390MTT	39±20%	0.25V/1K	72.9	2.75
CMLH1207S470MTT	47±20%	0.25V/1K	100	2.50
CMLH1207S560MTT	56±20%	0.25V/1K	110	2.35
CMLH1207S680MTT	68±20%	0.25V/1K	140	2.10
CMLH1207S820MTT	82±20%	0.25V/1K	160	1.95
CMLH1207S101MTT	100±20%	0.25V/1K	220	1.70
CMLH1207S121MTT	120±20%	0.25V/1K	250	1.60
CMLH1207S151MTT	150±20%	0.25V/1K	280	1.42
CMLH1207S181MTT	180±20%	0.25V/1K	350	1.30
CMLH1207S221MTT	220±20%	0.25V/1K	390	1.16
CMLH1207S271MTT	270±20%	0.25V/1K	560	1.06
CMLH1207S331MTT	330±20%	0.25V/1K	640	0.95
CMLH1207S391MTT	390±20%	0.25V/1K	700	0.88
CMLH1207S471MTT	470±20%	0.25V/1K	980	0.79
CMLH1207S561MTT	560±20%	0.25V/1K	1070	0.73
CMLH1207S681MTT	680±20%	0.25V/1K	1460	0.67
CMLH1207S821MTT	820±20%	0.25V/1K	1640	0.60
CMLH1207S102MTT	1000±20%	0.25V/1K	1820	0.55
CMLH1209S Series				
CMLH1209S1R5MTT	1.5±20%	0.25V/1K	4.28	15.10
CMLH1209S2R2MTT	2.2±20%	0.25V/1K	4.81	13.20
CMLH1209S3R3MTT	3.3±20%	0.25V/1K	5.55	11.90
CMLH1209S4R7MTT	4.7±20%	0.25V/1K	7.41	10.80
CMLH1209S5R6MTT	5.6±20%	0.25V/1K	9.33	9.60
CMLH1209S6R8MTT	6.8±20%	0.25V/1K	11.6	8.70
CMLH1209S100MTT	10±20%	0.25V/1K	15.24	8.00
CMLH1209S150MTT	15±20%	0.25V/1K	23.13	7.00

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLH1209S Series				
CMLH1209S220MTT	22±20%	0.25V/1K	28.69	5.60
CMLH1209S330MTT	33±20%	0.25V/1K	43.47	4.80
CMLH1209S470MTT	47±20%	0.25V/1K	55.83	3.90
CMLH1209S680MTT	68±20%	0.25V/1K	77.11	2.70
CMLH1209S101MTT	100±20%	0.25V/1K	117.5	2.10

◆ Package

Size EIA (EIA)	CMLH0703S	CMLH0704S	CMLH1204S	CMLH1205S
Standard Packing Quantity (pcs / reel)	1,000	1,000	800	500
	CMLH1207S	CMLH1209S		
	500	400		

SMD Type Shielded Power Inductors
CMLS-S Series

◆ Features

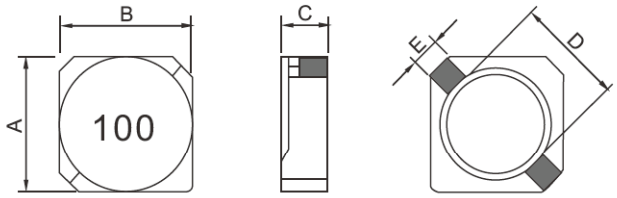
1、Excellent solderability and high heat resistance;
2、Low cost and packed in embossed carrier tape;
3、The products contain no lead and also support lead-free soldering.



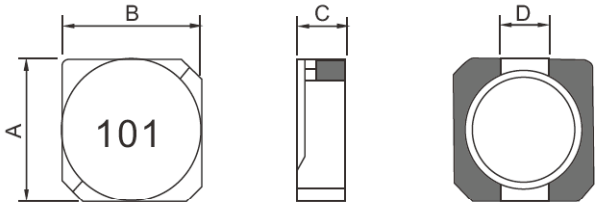
◆ Applications

Ideal use in notebook, hard disk and other electronic equipment.

◆ Shape & Dimensions



CMLS-2D/3D Series



CMLS-4D/5D/6D Series

◆ Lead Free Part Numbering

CMLS 4D18 S 100 M T T
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Dimension：A X C;
(3) Material Code;
(4) Inductance：2R2=2.2μH;100=10μH;
101=100μH;
(5) Inductance Tolerance：M=±20%, Y=±30%;
(6) Company Code;
(7) Packaging：packed in embossed carrier tape.

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
CMLS2D11	3.2 max.	3.2 max.	1.3 max.	2.1 typ.	1.0 typ.
CMLS2D14	3.2 max.	3.2 max.	1.6 max.	2.1 typ.	1.0 typ.
CMLS2D18	3.2 max.	3.2 max.	2.0 max.	2.1 typ.	1.0 typ.
CMLS3D16	4.0 max.	4.0 max.	1.9 max.	2.8 typ.	1.1 typ.
CMLS3D28	4.0 max.	4.0 max.	3.0 max.	2.8 typ.	1.1 typ.
CMLS4D18	5.0 max.	5.0 max.	2.0 max.	1.5 typ.	-
CMLS4D28	5.0 max.	5.0 max.	3.0 max.	1.5 typ.	-
CMLS5D18	6.0 max.	6.0 max.	2.0 max.	2.0 typ.	-
CMLS5D28	6.0 max.	6.0 max.	3.0 max.	2.0 typ.	-
CMLS6D28	7.0 max.	7.0 max.	3.0 max.	2.0 typ.	-
CMLS6D38	7.0 max.	7.0 max.	4.0 max.	2.0 typ.	-

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLS2D11S Series				
CMLS2D11S-1R5MTT	1.5±20%	0.1V/100K	0.068	0.90
CMLS2D11S-2R2MTT	2.2±20%	0.1V/100K	0.098	0.78
CMLS2D11S-3R3MTT	3.3±20%	0.1V/100K	0.123	0.60
CMLS2D11S-4R7MTT	4.7±20%	0.1V/100K	0.170	0.50
CMLS2D11S-6R8MTT	6.8±20%	0.1V/100K	0.260	0.44
CMLS2D11S-100MTT	10.0±20%	0.1V/100K	0.400	0.35
CMLS2D14S Series				
CMLS2D14S-1R5MTT	1.5±20%	0.1V/100K	0.063	1.80
CMLS2D14S-1R8MTT	1.8±20%	0.1V/100K	0.075	1.65
CMLS2D14S-2R2MTT	2.2±20%	0.1V/100K	0.094	1.50
CMLS2D14S-2R7MTT	2.7±20%	0.1V/100K	0.106	1.35
CMLS2D14S-3R3MTT	3.3±20%	0.1V/100K	0.125	1.20
CMLS2D14S-3R9MTT	3.9±20%	0.1V/100K	0.138	1.10
CMLS2D14S-4R7MTT	4.7±20%	0.1V/100K	0.169	1.00
CMLS2D14S-5R6MTT	5.6±20%	0.1V/100K	0.188	0.95
CMLS2D14S-6R8MTT	6.8±20%	0.1V/100K	0.213	0.85
CMLS2D14S-100MTT	10.0±20%	0.1V/100K	0.294	0.70
CMLS2D18S Series				
CMLS2D18S-2R2MTT	2.2±20%	0.1V/100K	0.041	0.85
CMLS2D18S-3R3MTT	3.3±20%	0.1V/100K	0.054	0.75
CMLS2D18S-4R7MTT	4.7±20%	0.1V/100K	0.078	0.63
CMLS2D18S-6R8MTT	6.8±20%	0.1V/100K	0.106	0.52
CMLS2D18S-100MTT	10.0±20%	0.1V/100K	0.180	0.43
CMLS2D18S-150MTT	15.0±20%	0.1V/100K	0.220	0.35
CMLS2D18S-220MTT	22.0±20%	0.1V/100K	0.320	0.30
CMLS2D18S-330MTT	33.0±20%	0.1V/100K	0.460	0.24
CMLS2D18S-470MTT	47.0±20%	0.1V/100K	0.660	0.20
CMLS3D16S Series				
CMLS3D16S-3R3MTT	3.3±20%	0.1V/100K	0.066	0.80
CMLS3D16S-3R9MTT	3.9±20%	0.1V/100K	0.081	0.75
CMLS3D16S-4R7MTT	4.7±20%	0.1V/100K	0.091	0.68
CMLS3D16S-5R6MTT	5.6±20%	0.1V/100K	0.102	0.62

Shielded High Current SMD Power Inductor
CMLS-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLS3D16S Series				
CMLS3D16S-6R8MTT	6.8±20%	0.1V/100K	0.130	0.58
CMLS3D16S-8R2MTT	8.2±20%	0.1V/100K	0.140	0.51
CMLS3D16S-100MTT	10±20%	0.1V/100K	0.190	0.46
CMLS3D16S-120MTT	12±20%	0.1V/100K	0.205	0.42
CMLS3D16S-150MTT	15±20%	0.1V/100K	0.272	0.38
CMLS3D16S-180MTT	18±20%	0.1V/100K	0.327	0.34
CMLS3D16S-220MTT	22±20%	0.1V/100K	0.356	0.31
CMLS3D16S-270MTT	27±20%	0.1V/100K	0.470	0.28
CMLS3D16S-330MTT	33±20%	0.1V/100K	0.560	0.26
CMLS3D16S-390MTT	39±20%	0.1V/100K	0.700	0.24
CMLS3D16S-470MTT	47±20%	0.1V/100K	0.775	0.21
CMLS3D28S Series				
CMLS3D28S-3R3MTT	3.3±20%	0.1V/100K	0.036	0.90
CMLS3D28S-4R7MTT	4.7±20%	0.1V/100K	0.046	0.80
CMLS3D28S-6R8MTT	6.8±20%	0.1V/100K	0.055	0.60
CMLS3D28S-100MTT	10.0±20%	0.1V/100K	0.075	0.48
CMLS3D28S-150MTT	15.0±20%	0.1V/100K	0.117	0.42
CMLS3D28S-220MTT	22.0±20%	0.1V/100K	0.157	0.36
CMLS3D28S-330MTT	33.0±20%	0.1V/100K	0.218	0.30
CMLS3D28S-470MTT	47.0±20%	0.1V/100K	0.301	0.28
CMLS4D18S Series				
CMLS4D18S-1R0MTT	1.0±20%	0.1V/100K	0.045	1.72
CMLS4D18S-2R2MTT	2.2±20%	0.1V/100K	0.075	1.32
CMLS4D18S-2R7MTT	2.7±20%	0.1V/100K	0.105	1.28
CMLS4D18S-3R3MTT	3.3±20%	0.1V/100K	0.110	1.04
CMLS4D18S-3R9MTT	3.9±20%	0.1V/100K	0.155	0.88
CMLS4D18S-4R7MTT	4.7±20%	0.1V/100K	0.162	0.84
CMLS4D18S-5R6MTT	5.6±20%	0.1V/100K	0.170	0.80
CMLS4D18S-6R8MTT	6.8±20%	0.1V/100K	0.200	0.76
CMLS4D18S-8R2MTT	8.2±20%	0.1V/100K	0.245	0.68
CMLS4D18S-100MTT	10±20%	0.1V/100K	0.200	0.61
CMLS4D18S-120MTT	12±20%	0.1V/100K	0.210	0.56

Shielded High Current SMD Power Inductor
CMLS-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLS4D18S Series				
CMLS4D18S-150MTT	15±20%	0.1V/100K	0.240	0.50
CMLS4D18S-180MTT	18±20%	0.1V/100K	0.338	0.48
CMLS4D18S-220MTT	22±20%	0.1V/100K	0.397	0.41
CMLS4D18S-270MTT	27±20%	0.1V/100K	0.441	0.35
CMLS4D18S-330MTT	33±20%	0.1V/100K	0.694	0.32
CMLS4D18S-390MTT	39±20%	0.1V/100K	0.709	0.30
CMLS4D18S-470MTT	47±20%	0.1V/100K	0.922	0.28
CMLS4D18S-560MTT	56±20%	0.1V/100K	1.080	0.26
CMLS4D18S-680MTT	68±20%	0.1V/100K	1.300	0.24
CMLS4D18S-820MTT	82±20%	0.1V/100K	1.550	0.22
CMLS4D18S-101MTT	100±20%	0.1V/100K	1.730	0.20
CMLS4D28S Series				
CMLS4D28S-1R0MTT	1.0±20%	0.1V/100K	0.023	2.66
CMLS4D28S-2R2MTT	2.2±20%	0.1V/100K	0.031	2.04
CMLS4D28S-3R3MTT	3.3±20%	0.1V/100K	0.049	1.57
CMLS4D28S-4R7MTT	4.7±20%	0.1V/100K	0.072	1.32
CMLS4D28S-5R6MTT	5.6±20%	0.1V/100K	0.101	1.17
CMLS4D28S-6R8MTT	6.8±20%	0.1V/100K	0.109	1.12
CMLS4D28S-8R2MTT	8.2±20%	0.1V/100K	0.118	1.04
CMLS4D28S-100MTT	10±20%	0.1V/100K	0.128	1.00
CMLS4D28S-150MTT	15±20%	0.1V/100K	0.149	0.76
CMLS4D28S-220MTT	22±20%	0.1V/100K	0.235	0.70
CMLS4D28S-270MTT	27±20%	0.1V/100K	0.261	0.58
CMLS4D28S-330MTT	33±20%	0.1V/100K	0.378	0.56
CMLS4D28S-470MTT	47±20%	0.1V/100K	0.384	0.50
CMLS4D28S-680MTT	68±20%	0.1V/100K	0.699	0.35
CMLS4D28S-820MTT	82±20%	0.1V/100K	0.915	0.32
CMLS4D28S-101MTT	100±20%	0.1V/100K	1.020	0.29
CMLS4D28S-151MTT	150±20%	0.1V/100K	1.350	0.24
CMLS4D28S-181MTT	180±20%	0.1V/100K	1.540	0.22
CMLS4D28S-221MTT	220±20%	0.1V/100K	1.720	0.20
CMLS4D28S-331MTT	330±20%	0.1V/100K	2.660	0.14
CMLS4D28S-391MTT	390±20%	0.1V/100K	2.830	0.13

Shielded High Current SMD Power Inductor
CMLS-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLS5D18S Series				
CMLS5D18S-2R2MTT	2.2±20%	0.1V/10K	0.039	2.40
CMLS5D18S-3R3MTT	3.3±20%	0.1V/10K	0.048	1.90
CMLS5D18S-4R7MTT	6.2±20%	0.1V/10K	0.068	1.70
CMLS5D18S-6R8MTT	6.8±20%	0.1V/10K	0.102	1.40
CMLS5D18S-100MTT	10.0±20%	0.1V/10K	0.124	1.20
CMLS5D18S-120MTT	12.0±20%	0.1V/10K	0.153	1.10
CMLS5D18S-150MTT	15.0±20%	0.1V/10K	0.196	0.97
CMLS5D18S-180MTT	18.0±20%	0.1V/10K	0.210	0.85
CMLS5D18S-220MTT	22.0±20%	0.1V/10K	0.290	0.80
CMLS5D18S-270MTT	27.0±20%	0.1V/10K	0.330	0.75
CMLS5D18S-330MTT	33.0±20%	0.1V/10K	0.386	0.65
CMLS5D18S-390MTT	39.0±20%	0.1V/10K	0.520	0.57
CMLS5D18S-470MTT	47.0±20%	0.1V/10K	0.595	0.54
CMLS5D18S-560MTT	56.0±20%	0.1V/10K	0.665	0.50
CMLS5D18S-680MTT	68.0±20%	0.1V/10K	0.840	0.43
CMLS5D18S-820MTT	82.0±20%	0.1V/10K	0.978	0.41
CMLS5D18S-101MTT	100±20%	0.1V/10K	1.200	0.36
CMLS5D18S-121MTT	120±20%	0.1V/10K	1.500	0.33
CMLS5D18S-151MTT	150±20%	0.1V/10K	1.710	0.31
CMLS5D18S-181MTT	180±20%	0.1V/10K	2.240	0.28
CMLS5D18S-221MTT	220±20%	0.1V/10K	2.440	0.23
CMLS5D18S-331MTT	330±20%	0.1V/10K	4.340	0.18
CMLS5D28S Series				
CMLS5D28S-2R2MTT	2.2±20%	0.1V/10K	0.018	3.00
CMLS5D28S-3R3MTT	3.3±20%	0.1V/10K	0.027	2.40
CMLS5D28S-4R7MTT	4.7±20%	0.1V/10K	0.032	2.10
CMLS5D28S-5R3MTT	5.3±20%	0.1V/10K	0.038	1.90
CMLS5D28S-6R2MTT	6.2±20%	0.1V/10K	0.045	1.80
CMLS5D28S-8R2MTT	8.2±20%	0.1V/10K	0.053	1.60
CMLS5D28S-100MTT	10±20%	0.1V/10K	0.065	1.30
CMLS5D28S-120MTT	12±20%	0.1V/10K	0.076	1.20
CMLS5D28S-150MTT	15±20%	0.1V/10K	0.103	1.10

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLS5D28S Series				
CMLS5D28S-180MTT	18±20%	0.1V/10K	0.110	1.00
CMLS5D28S-220MTT	22±20%	0.1V/10K	0.122	0.90
CMLS5D28S-270MTT	27±20%	0.1V/10K	0.175	0.85
CMLS5D28S-330MTT	33±20%	0.1V/10K	0.189	0.75
CMLS5D28S-390MTT	39±20%	0.1V/10K	0.212	0.70
CMLS5D28S-470MTT	47±20%	0.1V/10K	0.260	0.62
CMLS5D28S-560MTT	56±20%	0.1V/10K	0.305	0.58
CMLS5D28S-680MTT	68±20%	0.1V/10K	0.355	0.52
CMLS5D28S-820MTT	82±20%	0.1V/10K	0.463	0.46
CMLS5D28S-101MTT	100±20%	0.1V/10K	0.520	0.42
CMLS5D28S-121MTT	120±20%	0.1V/10K	0.560	0.40
CMLS5D28S-151MTT	150±20%	0.1V/10K	0.680	0.35
CMLS5D28S-181MTT	180±20%	0.1V/10K	0.930	0.32
CMLS5D28S-221MTT	220±20%	0.1V/10K	1.150	0.30
CMLS5D28S-271MTT	270±20%	0.1V/10K	1.560	0.27
CMLS5D28S-331MTT	330±20%	0.1V/10K	1.980	0.25
CMLS5D28S-391MTT	390±20%	0.1V/10K	2.500	0.22
CMLS5D28S-471MTT	470±20%	0.1V/10K	2.700	0.20
CMLS5D28S-561MTT	560±20%	0.1V/10K	3.120	0.18
CMLS5D28S-681MTT	680±20%	0.1V/10K	4.150	0.16
CMLS6D28S Series				
CMLS6D28S-2R2MTT	2.2±20%	0.1V/10K	0.024	3.60
CMLS6D28S-3R3MTT	3.3±20%	0.1V/10K	0.030	2.80
CMLS6D28S-4R7MTT	4.7±20%	0.1V/10K	0.039	2.40
CMLS6D28S-6R8MTT	6.8±20%	0.1V/10K	0.051	2.10
CMLS6D28S7R3MTT	7.3±20%	0.1V/10K	0.054	2.10
CMLS6D28S-8R6MTT	8.6±20%	0.1V/10K	0.058	1.85
CMLS6D28S-100MTT	10±20%	0.1V/10K	0.065	1.70
CMLS6D28S-120MTT	12±20%	0.1V/10K	0.070	1.55
CMLS6D28S-150MTT	15±20%	0.1V/10K	0.084	1.40
CMLS6D28S-180MTT	18±20%	0.1V/10K	0.095	1.32
CMLS6D28S-220MTT	22±20%	0.1V/10K	0.128	1.20

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLS6D28S Series				
CMLS6D28S-270MTT	27±20%	0.1V/10K	0.142	1.05
CMLS6D28S-330MTT	33±20%	0.1V/10K	0.165	0.97
CMLS6D28S-390MTT	39±20%	0.1V/10K	0.210	0.86
CMLS6D28S-470MTT	47±20%	0.1V/10K	0.238	0.80
CMLS6D28S-560MTT	56±20%	0.1V/10K	0.277	0.73
CMLS6D28S-680MTT	68±20%	0.1V/10K	0.304	0.65
CMLS6D28S-820MTT	82±20%	0.1V/10K	0.390	0.60
CMLS6D28S-101MTT	100±20%	0.1V/10K	0.535	0.54
CMLS6D28S-121MTT	120±20%	0.1V/10K	0.750	0.51
CMLS6D28S-151MTT	150±20%	0.1V/10K	0.950	0.47
CMLS6D28S-181MTT	180±20%	0.1V/10K	1.200	0.41
CMLS6D28S-221MTT	220±20%	0.1V/10K	1.500	0.37
CMLS6D28S-271MTT	270±20%	0.1V/10K	1.700	0.33
CMLS6D28S-331MTT	330±20%	0.1V/10K	2.150	0.28
CMLS6D28S-391MTT	390±20%	0.1V/10K	2.250	0.27
CMLS6D28S-471MTT	470±20%	0.1V/10K	3.150	0.21
CMLS6D28S-561MTT	560±20%	0.1V/10K	3.750	0.20
CMLS6D28S-681MTT	680±20%	0.1V/10K	5.150	0.20
CMLS6D38S Series				
CMLS6D38S-2R2MTT	2.2±20%	0.1V/10K	0.018	4.40
CMLS6D38S-3R3MTT	3.3±20%	0.1V/10K	0.025	3.50
CMLS6D38S-4R7MTT	4.7±20%	0.1V/10K	0.027	2.80
CMLS6D38S-6R8MTT	6.8±20%	0.1V/10K	0.032	2.40
CMLS6D38S-8R7MTT	8.7±20%	0.1V/10K	0.034	2.20
CMLS6D38S-100MTT	10±20%	0.1V/10K	0.038	2.00
CMLS6D38S-120MTT	12±20%	0.1V/10K	0.053	1.70
CMLS6D38S-150MTT	15±20%	0.1V/10K	0.057	1.60
CMLS6D38S-180MTT	18±20%	0.1V/10K	0.092	1.50
CMLS6D38S-220MTT	22±20%	0.1V/10K	0.096	1.30
CMLS6D38S-270MTT	27±20%	0.1V/10K	0.109	1.20
CMLS6D38S-330MTT	33±20%	0.1V/10K	0.124	1.10
CMLS6D38S-390MTT	39±20%	0.1V/10K	0.138	1.00

Shielded High Current SMD Power Inductor
CMLS-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLS6D38S Series				
CMLS6D38S-470MTT	47±20%	0.1V/10K	0.155	0.95
CMLS6D38S-560MTT	56±20%	0.1V/10K	0.202	0.85
CMLS6D38S-680MTT	68±20%	0.1V/10K	0.234	0.75
CMLS6D38S-820MTT	82±20%	0.1V/10K	0.324	0.70
CMLS6D38S-101MTT	100±20%	0.1V/10K	0.358	0.65
CMLS6D38S-121MTT	120±20%	0.1V/10K	0.470	0.59
CMLS6D38S-151MTT	150±20%	0.1V/10K	0.580	0.54
CMLS6D38S-181MTT	180±20%	0.1V/10K	0.690	0.49
CMLS6D38S-221MTT	220±20%	0.1V/10K	0.890	0.43
CMLS6D38S-271MTT	270±20%	0.1V/10K	1.290	0.40
CMLS6D38S-331MTT	330±20%	0.1V/10K	1.700	0.37
CMLS6D38S-391MTT	390±20%	0.1V/10K	1.750	0.34
CMLS6D38S-471MTT	470±20%	0.1V/10K	2.200	0.32
CMLS6D38S-561MTT	560±20%	0.1V/10K	2.850	0.29
CMLS6D38S-681MTT	680±20%	0.1V/10K	3.200	0.25
CMLS6D38S-821MTT	820±20%	0.1V/10K	4.050	0.22
CMLS6D38S-102MTT	1000±20%	0.1V/10K	5.700	0.20

◆ Package

Size EIA (EIA)	CMLS2D11	CMLS2D14	CMLS2D18	CMLS3D16
Standard Packing Quantity (pcs / reel)	1,000	1,000	1,000	3,000
	CMLS3D28	CMLS4D18	CMLS4D28	CMLS5D18
	3,000	2,000	2,000	2,000
	CMLS5D28	CMLS6D28	CMLS6D38	
	2,000	1,500	1,000	

SMD Type Shielded Power Inductors
CMLD-S Series

◆ Features

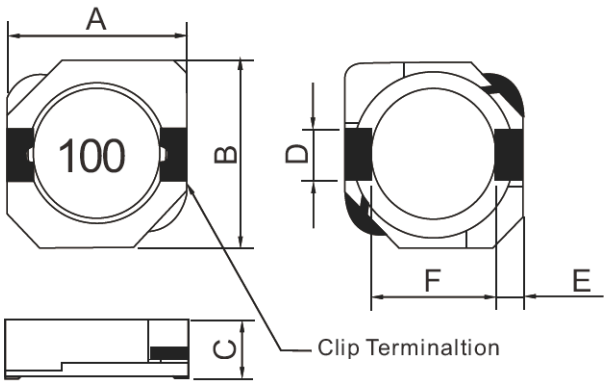
1、Magnetically shielded Version;
2、High inductance /High Power Inductor;
3、The products contain no lead and also support lead-free soldering.



◆ Applications

Excellent as VTR, OA equipment, LCD television sets, notebook PC, portable communication equipments, DC/DC converters, etc.

◆ Shape & Dimensions



◆ Lead Free Part Numbering

CMLD 10D40 S 100 M T T
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Dimension：A X C;
(3) Material Code;
(4) Inductance：2R2=2.2μH; 100=10μH;
101=100μH;
(5) Inductance Tolerance：M=±20%, Y=±30%;
(6) Company Code;
(7) Packaging：packed in embossed carrier tape;

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
CMLD10D30S	10.5 max.	10.3 max.	3.0max.	3.0±0.1	1.2±0.15	7.7±0.3
CMLD10D40S	10.5 max.	10.3 max.	4.0max.	3.0±0.1	1.2±0.15	7.7±0.3
CMLD10D50S	10.5 max.	10.3 max.	5.0max.	3.0±0.1	1.2±0.15	7.7±0.3

Shielded High Current SMD Power Inductor
CMLS-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLD10D30S Series				
CMLD10D30S-R80YTT	0.8±30%	0.1V/100K	5.7	11.20
CMLD10D30S-1R5MTT	1.5±20%	0.1V/100K	11.0	8.00
CMLD10D30S-2R2MTT	2.2±20%	0.1V/100K	16.9	6.70
CMLD10D30S-3R3MTT	3.3±20%	0.1V/100K	21.0	5.56
CMLD10D30S-4R7MTT	4.7±20%	0.1V/100K	30.0	4.65
CMLD10D30S-6R8MTT	6.8±20%	0.1V/100K	35.0	3.84
CMLD10D30S-8R2MTT	8.2±20%	0.1V/100K	50.0	3.54
CMLD10D30S-100MTT	10±20%	0.1V/100K	59.0	3.18
CMLD10D30S-150MTT	15±20%	0.1V/100K	91.0	2.60
CMLD10D30S-220MTT	22±20%	0.1V/100K	143.0	2.16
CMLD10D30S-330MTT	33±20%	0.1V/100K	202.0	1.74
CMLD10D30S-470MTT	47±20%	0.1V/100K	299.0	1.43
CMLD10D30S-560MTT	56±20%	0.1V/100K	325.0	1.36
CMLD10D30S-680MTT	68±20%	0.1V/100K	429.0	1.22
CMLD10D30S-820MTT	82±20%	0.1V/100K	494.0	1.14
CMLD10D30S-101MTT	100±20%	0.1V/100K	683.0	1.02
CMLD10D30S-121MTT	120±20%	0.1V/100K	754.0	0.89
CMLD10D30S-151MTT	150±20%	0.1V/100K	871.0	0.84
CMLD10D40S Series				
CMLD10D40S-1R5MTT	1.50±20%	0.1V/100K	8.1	10.00
CMLD10D40S-2R2MTT	2.20±20%	0.1V/100K	10.5	7.50
CMLD10D40S-3R3MTT	3.30±20%	0.1V/100K	13.0	6.00
CMLD10D40S-4R7MTT	4.70±20%	0.1V/100K	22.0	5.50
CMLD10D40S-5R2MTT	5.20±20%	0.1V/100K	25.0	5.40
CMLD10D40S-6R8MTT	6.80±20%	0.1V/100K	27.0	4.80
CMLD10D40S-100MTT	10.0±20%	0.1V/100K	35.0	4.40
CMLD10D40S-150MTT	15.0±20%	0.1V/100K	50.0	3.60
CMLD10D40S-220MTT	22.0±20%	0.1V/100K	73.0	2.90
CMLD10D40S-330MTT	33.0±20%	0.1V/100K	93.0	2.30
CMLD10D40S-470MTT	47.0±20%	0.1V/100K	128.0	2.10
CMLD10D40S-680MTT	68.0±20%	0.1V/100K	213.0	1.50
CMLD10D40S-101MTT	100.0±20%	0.1V/100K	304.0	1.35

Shielded High Current SMD Power Inductor
CMLS-S Series

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLD10D40S Series				
CMLD10D40S-151MTT	150.0±20%	0.1V/100K	506	1.15
CMLD10D40S-221MTT	220.0±20%	0.1V/100K	756	0.92
CMLD10D40S-331MTT	330.0±20%	0.1V/100K	1090	0.70
CMLD10D50S Series				
CMLD10D50S-1R0MTT	1.0±20%	0.1V/100K	4.3	9.50
CMLD10D50S-1R5MTT	1.5±20%	0.1V/100K	5.8	8.60
CMLD10D50S-2R2MTT	2.2±20%	0.1V/100K	7.2	7.80
CMLD10D50S-3R3MTT	3.3±20%	0.1V/100K	10.4	7.10
CMLD10D50S-4R7MTT	4.7±20%	0.1V/100K	12.3	6.50
CMLD10D50S-6R8MTT	6.8±20%	0.1V/100K	18.0	5.70
CMLD10D50S-100MTT	10±20%	0.1V/100K	26.0	4.80
CMLD10D50S-150MTT	15±20%	0.1V/100K	41.0	4.30
CMLD10D50S-220MTT	22±20%	0.1V/100K	61.0	3.60
CMLD10D50S-330MTT	33±20%	0.1V/100K	84.0	3.00
CMLD10D50S-470MTT	47±20%	0.1V/100K	130	2.20
CMLD10D50S-560MTT	56±20%	0.1V/100K	149	1.90
CMLD10D50S-680MTT	68±20%	0.1V/100K	201	1.60
CMLD10D50S-820MTT	82±20%	0.1V/100K	227	1.45
CMLD10D50S-101MTT	100±20%	0.1V/100K	253	1.35
CMLD10D50S-151MTT	150±20%	0.1V/100K	370	1.10
CMLD10D50S-221MTT	220±20%	0.1V/100K	500	0.94
CMLD10D50S-331MTT	330±20%	0.1V/100K	812	0.73
CMLD10D50S-471MTT	470±20%	0.1V/100K	1289	0.54
CMLD10D50S-561MTT	560±20%	0.1V/100K	1430	0.52
CMLD10D50S-681MTT	680±20%	0.1V/100K	1599	0.51
CMLD10D50S-102MTT	1000±20%	0.1V/100K	1989	0.42

◆ Package

Size EIA (EIA)	CMLD10D30S	CMLD10D40S	CMLD10D40S	
Standard Packing Quantity (pcs / reel)	1,000	1,000	800	

On-Board Type Coils / Chip Power Inductor

CMLP-S Series

◆ Features

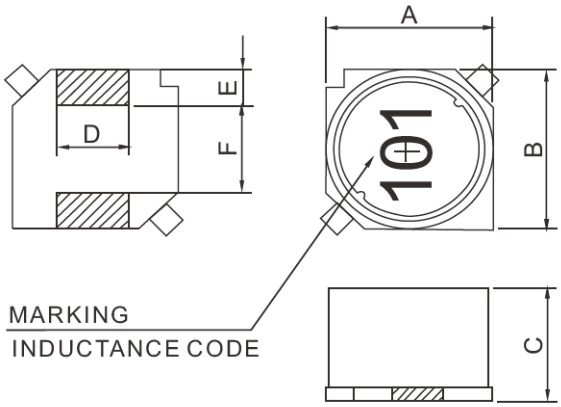
1、Magnetic Shielded surface mount inductor with high current rating.
2、Low resistance to keep power loss minimum.
3、The products contain no lead and also support lead-free soldering.



◆ Applications

Excellent for power line DC-DC conversion applications used in hard disk, notebook computers and other electronic equipment.

◆ Shape & Dimensions



◆ Lead Free Part Numbering

CMLP 6045 S 100 M T T
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Dimension：A X C;
(3) Material Code;
(4) Inductance：2R2=2.2μH;100=10μH;
101=100μH;
(5) Inductance Tolerance：M=±20%,Y=±30%;
(6) Company Code;
(7) Packaging：packed in embossed carrier tape.

Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
CMLP6025S	6.0±0.2	6.0±0.2	2.5±0.2	2.0±0.1	0.9±0.1	4.0±0.2
CMLP6028S	6.0±0.2	6.0±0.2	2.8±0.2	2.0±0.1	0.9±0.1	4.0±0.2
CMLP6045S	6.0±0.2	6.0±0.2	4.5±0.3	2.0±0.1	0.9±0.1	4.0±0.2
CMLP7032S	7.0±0.2	7.0±0.2	3.2±0.2	2.0±0.1	0.9±0.1	4.9±0.2
CMLP7045S	7.0±0.2	7.0±0.2	4.5±0.3	2.0±0.1	0.9±0.1	4.9±0.2
CMLP7055S	7.0±0.2	7.0±0.2	5.5±0.3	2.0±0.1	0.9±0.1	4.9±0.2
CMLP1045S	10.0±0.3	10.0±0.3	4.5±0.3	3.0±0.1	2.0±0.1	6.1±0.2
CMLP1065S	10.0±0.3	10.0±0.3	6.5±0.3	3.0±0.1	2.0±0.1	6.1±0.2
CMLP1255S	12.5±0.3	12.5±0.3	5.5±0.3	3.0±0.1	2.0±0.1	8.5±0.2
CMLP1265S	12.5±0.3	12.5±0.3	6.5±0.3	3.0±0.1	2.0±0.1	8.5±0.2
CMLP1275S	12.5±0.3	12.5±0.3	7.5±0.3	3.0±0.1	2.0±0.1	8.5±0.2

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLP6025S Series				
CMLP6025S4R7MTT	4.7±20%	1V/100K	0.031	1.80
CMLP6025S6R8MTT	6.8±20%	1V/100K	0.044	1.50
CMLP6025S100MTT	10±20%	1V/100K	0.057	1.30
CMLP6025S150MTT	15±20%	1V/100K	0.085	1.10
CMLP6025S220MTT	22±20%	1V/100K	0.122	0.94
CMLP6025S330MTT	33±20%	1V/100K	0.180	0.79
CMLP6025S470MTT	47±20%	1V/100K	0.240	0.67
CMLP6025S680MTT	68±20%	1V/100K	0.370	0.54
CMLP6025S101MTT	100±20%	1V/100K	0.500	0.47
CMLP6028S Series				
CMLP6028S6R8MTT	6.8±20%	1V/100K	0.028	2.50
CMLP6028S100MTT	10±20%	1V/100K	0.035	2.20
CMLP6028S150MTT	15±20%	1V/100K	0.053	1.80
CMLP6028S220MTT	22±20%	1V/100K	0.074	1.40
CMLP6028S330MTT	33±20%	1V/100K	0.104	1.30
CMLP6028S470MTT	47±20%	1V/100K	0.148	1.10
CMLP6028S680MTT	68±20%	1V/100K	0.210	0.92
CMLP6028S101MTT	100±20%	1V/100K	0.290	0.78
CMLP6028S151MTT	150±20%	1V/100K	0.430	0.64
CMLP6028S221MTT	220±20%	1V/100K	0.650	0.50
CMLP6045S Series				
CMLP6045S1R5MTT	1.5±20%	1V/100K	0.016	4.10
CMLP6045S2R2MTT	2.2±20%	1V/100K	0.018	3.80
CMLP6045S3R3MTT	3.3±20%	1V/100K	0.021	3.40
CMLP6045S4R7MTT	4.7±20%	1V/100K	0.026	3.20
CMLP6045S6R8MTT	6.8±20%	1V/100K	0.033	2.80
CMLP6045S100MTT	10±20%	1V/100K	0.039	2.70
CMLP6045S150MTT	15±20%	1V/100K	0.059	2.20
CMLP6045S220MTT	22±20%	1V/100K	0.082	1.80
CMLP7032S Series				
CMLP7032S3R3MTT	3.3±20%	1V/100K	0.023	2.60
CMLP7032S3R5MTT	3.5±20%	1V/100K	0.025	2.50
CMLP7032S4R7MTT	4.7±20%	1V/100K	0.030	1.90

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLP7032S Series				
CMLP7032S6R8MTT	6.8±20%	1V/100K	0.041	1.70
CMLP7032S100MTT	10±20%	1V/100K	0.053	1.40
CMLP7032S150MTT	15±20%	1V/100K	0.075	1.10
CMLP7032S220MTT	22±20%	1V/100K	0.110	0.96
CMLP7032S330MTT	33±20%	1V/100K	0.160	0.75
CMLP7032S470MTT	47±20%	1V/100K	0.240	0.67
CMLP7032S680MTT	68±20%	1V/100K	0.310	0.59
CMLP7032S101MTT	100±20%	1V/100K	0.450	0.45
CMLP7032S151MTT	150±20%	1V/100K	0.650	0.37
CMLP7032S221MTT	220±20%	1V/100K	1.050	0.29
CMLP7032S331MTT	330±20%	1V/100K	1.670	0.22
CMLP7032S471MTT	470±20%	1V/100K	2.050	0.20
CMLP7032S681MTT	680±20%	1V/100K	3.150	0.16
CMLP7045S Series				
CMLP7045S3R3MTT	3.3±20%	1V/100K	0.020	2.30
CMLP7045S4R7MTT	4.7±20%	1V/100K	0.030	2.10
CMLP7045S6R8MTT	6.8±20%	1V/100K	0.039	1.74
CMLP7045S100MTT	10±20%	1V/100K	0.036	1.78
CMLP7045S150MTT	15±20%	1V/100K	0.052	1.53
CMLP7045S220MTT	22±20%	1V/100K	0.061	1.34
CMLP7045S330MTT	33±20%	1V/100K	0.096	1.09
CMLP7045S470MTT	47±20%	1V/100K	0.125	0.92
CMLP7045S680MTT	68±20%	1V/100K	0.175	0.77
CMLP7045S101MTT	100±20%	1V/100K	0.250	0.65
CMLP7045S151MTT	150±20%	1V/100K	0.340	0.55
CMLP7045S221MTT	220±20%	1V/100K	0.520	0.45
CMLP7045S331MTT	330±20%	1V/100K	0.740	0.37
CMLP7045S471MTT	470±20%	1V/100K	1.050	0.31
CMLP7045S681MTT	680±20%	1V/100K	1.480	0.27
CMLP7045S102MTT	1000±20%	1V/100K	2.280	0.25
CMLP7055S Series				
CMLP7055S1R5MTT	1.5±20%	1V/100K	0.017	6.20
CMLP7055S2R2MTT	2.2±20%	1V/100K	0.021	5.30

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLP7055S Series				
CMLP7055S3R3MTT	3.3±20%	1V/100K	0.024	4.30
CMLP7055S4R7MTT	4.7±20%	1V/100K	0.028	3.60
CMLP7055S6R8MTT	6.8±20%	1V/100K	0.034	3.00
CMLP7055S100MTT	10±20%	1V/100K	0.039	2.60
CMLP7055S150MTT	15±20%	1V/100K	0.051	2.10
CMLP7055S220MTT	22±20%	1V/100K	0.064	1.70
CMLP1045S Series				
CMLP1045S3R3MTT	3.3±20%	1V/1K	0.016	4.90
CMLP1045S5R6MTT	5.6±20%	1V/1K	0.022	3.80
CMLP1045S100MTT	10±20%	1V/1K	0.036	3.00
CMLP1045S150MTT	15±20%	1V/1K	0.047	2.40
CMLP1045S220MTT	22±20%	1V/1K	0.059	2.10
CMLP1045S330MTT	33±20%	1V/1K	0.082	1.60
CMLP1045S470MTT	47±20%	1V/1K	0.100	1.40
CMLP1045S680MTT	68±20%	1V/1K	0.140	1.20
CMLP1045S101MTT	100±20%	1V/1K	0.200	1.00
CMLP1045S151MTT	150±20%	1V/1K	0.350	0.79
CMLP1045S221MTT	220±20%	1V/1K	0.470	0.65
CMLP1045S331MTT	330±20%	1V/1K	0.680	0.54
CMLP1045S471MTT	470±20%	1V/1K	1.030	0.47
CMLP1045S681MTT	680±20%	1V/1K	1.600	0.38
CMLP1045S102MTT	1000±20%	1V/1K	2.800	0.32
CMLP1045S152MTT	1500±20%	1V/1K	3.400	0.22
CMLP1065S Series				
CMLP1065S1R5MTT	1.5±20%	1V/1K	0.0067	10.70
CMLP1065S2R2MTT	2.2±20%	1V/1K	0.0084	8.90
CMLP1065S3R3MTT	3.3±20%	1V/1K	0.0096	7.80
CMLP1065S4R7MTT	4.7±20%	1V/1K	0.0117	6.10
CMLP1065S6R8MTT	6.8±20%	1V/1K	0.014	4.60
CMLP1065S100MTT	10±20%	1V/1K	0.018	4.10
CMLP1065S150MTT	15±20%	1V/1K	0.027	3.10
CMLP1255S Series				
CMLP1255S6R0MTT	6±20%	1V/1K	0.016	4.90

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLP1255S Series				
CMLP1255S100MTT	10±20%	1V/1K	0.022	4.30
CMLP1255S150MTT	15±20%	1V/1K	0.026	3.90
CMLP1255S220MTT	22±20%	1V/1K	0.034	3.40
CMLP1255S330MTT	33±20%	1V/1K	0.042	3.10
CMLP1255S470MTT	47±20%	1V/1K	0.062	2.50
CMLP1255S680MTT	68±20%	1V/1K	0.083	2.20
CMLP1255S101MTT	100±20%	1V/1K	0.117	1.80
CMLP1255S151MTT	150±20%	1V/1K	0.190	1.40
CMLP1255S221MTT	220±20%	1V/1K	0.270	1.20
CMLP1255S331MTT	330±20%	1V/1K	0.410	1.00
CMLP1255S471MTT	470±20%	1V/1K	0.520	0.88
CMLP1255S681MTT	680±20%	1V/1K	0.760	0.73
CMLP1255S102MTT	1000±20%	1V/1K	1.120	0.60
CMLP1255S152MTT	1500±20%	1V/1K	1.730	0.48
CMLP1265S Series				
CMLP1265S2R0MTT	2±20%	1V/1K	0.012	10.00
CMLP1265S4R2MTT	4.2±20%	1V/1K	0.015	7.30
CMLP1265S7R0MTT	7±20%	1V/1K	0.018	5.70
CMLP1265S100MTT	10±20%	1V/1K	0.02	5.00
CMLP1265S150MTT	15±20%	1V/1K	0.024	4.20
CMLP1265S220MTT	22±20%	1V/1K	0.032	3.50
CMLP1265S330MTT	33±20%	1V/1K	0.041	2.80
CMLP1265S470MTT	47±20%	1V/1K	0.058	2.40
CMLP1265S680MTT	68±20%	1V/1K	0.079	2.00
CMLP1265S101MTT	100±20%	1V/1K	0.123	1.60
CMLP1265S221MTT	220±20%	1V/1K	0.273	1.00
CMLP1275S Series				
CMLP1275S1R2MTT	1.2±20%	1V/1K	0.007	13.00
CMLP1275S2R7MTT	2.7±20%	1V/1K	0.009	10.00
CMLP1275S3R9MTT	3.9±20%	1V/1K	0.010	9.00
CMLP1275S5R6MTT	5.6±20%	1V/1K	0.012	7.80
CMLP1275S6R8MTT	6.8±20%	1V/1K	0.013	7.20
CMLP1275S100MTT	10±20%	1V/1K	0.016	5.50

◆ SPECFICATIONS

Part Number	Inductance (μH)	Test Freq	DCR (Ω) Max.	Idc (A) Max.
CMLP1275S Series				
CMLP1275S150MTT	15±20%	1V/1K	0.018	4.70
CMLP1275S220MTT	22±20%	1V/1K	0.026	4.00
CMLP1275S330MTT	33±20%	1V/1K	0.040	3.20
CMLP1275S470MTT	47±20%	1V/1K	0.053	2.70
CMLP1275S680MTT	68±20%	1V/1K	0.078	2.00
CMLP1275S101MTT	100±20%	1V/1K	0.125	1.90
CMLP1275S151MTT	150±20%	1V/1K	0.175	1.50
CMLP1275S221MTT	220±20%	1V/1K	0.258	1.30

◆ Package

Size EIA (EIA)	CMLP6025S	CMLP6028S	CMLP6045S	CMLP7032S
Standard Packing Quantity (pcs / reel)	1,000	1,000	1,000	1,000
	CMLP7045S	CMLP7055S	CMLP1045S	CMLP1065S
	1,000	1,000	1,000	500
	CMLP1255S	CMLP1265S	CMLP1275S	
	500	500	500	

Multilayer Power Inductor
CMLM Series

◆ Features

1、High DC bias current due to developed material;
2、Low profile and thin thickness;
3、Monolithic structure for high reliability;
4、Excellent solderability and high heat resistance
5、Low DC resistance;
6、No cross coupling due to magnetic shield.



◆ Applications

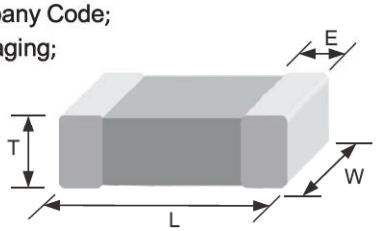
DC-DC converter circuits for mobile phones, DSCs, DVCs, HDDs, PDAs, etc.

size (EIA)	1608(0603)	2012(0805)	2016(0806)	2520(1008)
L	1.60±0.150	2.00±0.20	2.00±0.20	2.50±0.20
W	0.80±0.150	1.25±0.20	1.6±0.20	2.00±0.20
T	0.80±0.150	0.90±0.10	0.90±0.10	0.90±0.10
E	0.30±0.20	0.50±0.30	0.50±0.30	0.50±0.30

◆ Lead Free Part Numbering

CMLM 2520 4R7 M I T
(1) (2) (3) (4) (5) (6)

(1) Series Type;
(2) Dimension：Length x Width;
(3) Inductance：4R7=4.7μH;
(4) Inductance Tolerance：M=±20%;N=±30%;
(5) Company Code;
(6) Packaging;



◆ Specification

Part Number	Inductance (μH)	Test Freq (MHz)	S.R.F (MHz) Min.	DCR±25% Max. (Ω)	Rated current (mA)
CMLM1608(EIA 0603)					
CMLM16081R0MIT	1.0	1	60	0.35	280
CMLM16082R2MIT	2.2	1	50	0.52	250
CMLM16083R3MIT	3.3	1	40	0.75	230
CMLM16084R7MIT	4.7	1	35	0.90	210
CMLM 2012 (EIA 0805)					
CMLM2012R47MIT	0.47	1	100	0.09	1200
CMLM20121R0MIT	1.0	1	60	0.15	1000
CMLM20122R2MIT	2.2	1	50	0.20	900
CMLM20123R3MIT	3.3	1	40	0.30	850
CMLM20124R7MIT	4.7	1	35	0.37	750
CMLM2012100MIT	10	1	30	0.55	360
CMLM 2016 (EIA 0806)					
CMLM2016R47MIT	0. 47	1	100	0.06	1600
CMLM20161R0MIT	1.0	1	70	0.11	1400
CMLM20162R2MIT	2.2	1	50	0.11	1200
CMLM20163R3MIT	3.3	1	40	0.12	1200
CMLM20164R7MIT	4.7	1	30	0.14	1100
CMLM 2520 (EIA 1008)					
CMLM2520R47MIT	0.47	1	100	0.040	1800
CMLM25201R0MIT	1.0	1	60	0.055	1600
CMLM25201R5MIT	1.5	1	60	0.070	1500
CMLM25202R2MIT	2.2	1	40	0.080	1200
CMLM25203R3MIT	3.3	1	35	0.100	1100
CMLM25204R7MIT	4.7	1	30	0.110	1100
CMLM2520100MIT	10	1	20	0.210	550

◆ Package

Size EIA(EIA)	1608(0603)	2012(0805)	2016(0806)	2520(1008)
Standard Packing Quantity(pcs / reel)	4000	3000	3000	3000

Otehr Power Inductor

Series Name	Package L×W×H（mm）	Inductance Range	Rated Current （mA）	Model
CMLS-D Series				
CMLS0403D	4.45 x 6.6 x 3.0	1.0μH~1.0mH	2500~70	
CMLS0903D	9.50 x 13.5 x 3.2	10μH~1.0mH	2000~50	
CMLS1205D	12.95 x 9.4 x5.21	1.0μH~1.0mH	6500~100	
CMLS1310D	13.50x 9.5 x 11.5	10μH~1.0mH	3500~300	
CMLS1807D	18.50 x 15.3 x 7.11	1.0μH~1.0mH	8000~380	
CMCN Series				
CMCN2520	2.5 x 2.0 x1.8	1.0μH~330H	450~120	
CMCN3216	3.2 x 1.6 x 1.8	1.0μH~100μH	970~80	
CMCN3225	3.2 x 2.5 x 2.0	1.0μH~560μH	800~60	
CMCN4532	4.5 x 3.2 x 2.6	1.0μH~470μH	1100~90	
CMLD-P Series(High Current SMD Power Chokes)				
CMLD0630P	8.0 x 8.0 x （6.0~10.0）	0.33～2.2μH	8A~20A	
CMLD0635P	9.0 x 9.0 x （6.0~10.0）	0.47～3.3μH	10A~25A	
CMLD0645P	10.0 x 10.0 x （6.0~10.0）	0.47～3.3μH	8A~30A	
CMLD1040P	11.0 x 11.0 x （6.0~10.0）	0.47～4.7μH	8A~40A	
CMLD1045P	12.0 x 13.0 x （6.0~16.0）	0.47～4.7μH	8A~50A	
CMLD1350P	12.0 x 12.0 x （10.0~15.0）	0.47～5.6μH	8A~45A	
CMLD1355P	13.0 x 13.0 x （10.0~15.0）	0.47～5.6μH	8A~50A	
CMLD1360P	16.0 x 16.0 x （12.0~18.0）	0.47～3.3μH	8A~60A	
CMLD1390P	18.0 x 18.0 x （15.0~22.0）	0.47～3.3μH	8A~70A	
CMLP-R Series				
CMLP0304R	3.5 x 6.0 x 1.3	1.0μH~2.7mH	1000~30	
CMLP0406R	4.5 x 7.0 x 2.0	1.0μH~10mH	1400~10	
CMLP0507R	5.5 x 9.0 x 2.5	1.0μH~47mH	3500~15	
CMLP0608R	6.5 x 10.0 x 3.0	1.0μH~47mH	4300~35	
CMLP0707R	7.5 x 9.0 x 4.8	1.0μH~47mH	4980~18	
CMLP0810R	8.5 x 12.0 x 5.0	1.0μH~100mH	5400~20	
CMLP0912R	9.5 x 14.0 x 5.0	10μH~47mH	2800~30	
CMLP1820R	18.0 x 20.0 x 10.0	22μH~1mH	5700~1000	

Otehr Power Inductor

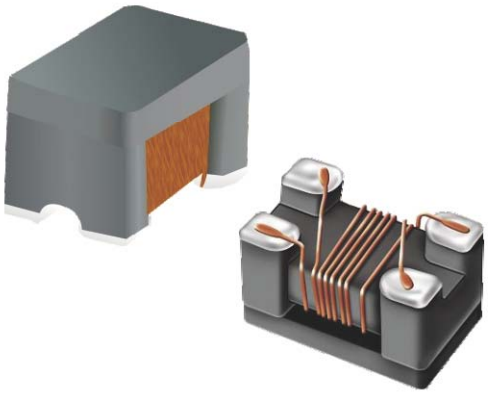
Series Name	Package L×W×H（mm）	Inductance Range	Rated Current （mA）	Model
CMLP-C Series(Shielded Radial Type Choke Inductors)				
CMLP0807C	7.8 x 7.8 x 7.5	22μH~1mH	1500~230	
CMLP1008C	10.0 x 10.0 x 8.0	10μH~680μH	2600~320	
CMLP1010C	10.0 x 10.0 x 10.0	10μH~820μH	3400~360	
CMLP1014C	11.0 x 11.0 x 15.0	10μH~820μH	5500~430	
CMLO-D Series(DIP Molding Power Inductor)				
CMLO0808D	8.0 x 8.0 x（6.0~10.0）	0.56～4.7μH	28000~8000	
CMLO0909D	9.0 x 9.0 x（6.0~10.0）	0.33～4.7μH	50000~8000	
CMLO1010D	10.0 x 10.0 x（6.0~10.0）	0.36～10μH	56000~13000	
CMLO1111D	11.0 x 11.0 x（6.0~10.0）	0.25～2.5μH	55000~25000	
CMLO1213D	12.0 x 13.0 x（6.0~16.0）	0.22～2.2μH	60000~25000	
CMLO-E Series(DIP Molding Power Inductor)				
CMLO1212E	12.0 x 12.0 x（10.0~15.0）	10μH~100μH	16000～4000	
CMLO1313E	13.0 x 13.0 x（10.0~15.0）	10μH~68μH	20000～5000	
CMLO1616E	16.0 x 16.0 x（12.0~18.0）	10μH~680μH	32000～8000	
CMLO1818E	18.0 x 18.0 x（15.0~22.0）	15μH~220μH	30000～7000	
CMLO2222E	22.0 x 22.0 x（15.0~22.0）	10μH~55μH	40000～21000	
CMLO-P Series(DIP Molding Power Inductor)				
CMLO0708P	7.0 x 8.0 x（6.0~10.0）	1.0～2.8μH	21000~12000	
CMLO0910P	9.0 x 10.0 x（6.0~10.0）	0.15～10μH	60000~7000	
CMLO1012P	10.0 x 12.0 x（8.0~16.0）	0.36～100μH	55000~5000	
CMLO1213P	12.0 x 13.0 x（9.0~18.0）	0.22～82μH	60000~6000	

CMTW Series	CMTC Series
	

Wire-wound Common Mode Filter
CMMW-B Series

◆ Features

1、Powerful component with composite co-fired material to solve EMI problem for high-speed differential signal transmission line as USB, IEEE1394 and LVDS, without distortion to high speed signal transmission;
2、High coupling constant : 0.99;
3、Small size and low profile;
4、Various common mode impedance items of 67 to 220 ohm can be used, considering noise level and signal frequency;
5、Small dimension enable higher density packaging;
6、RoHS Compliant.



◆ Applications

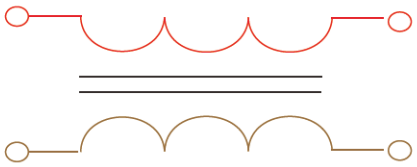
1、Common mode noise suppression of signal lines in high speed and high density digital quipment;
2、USB2.0/3.0 of PC, peripheral equipments, small digital AV equipments, etc.

◆ Lead Free Part Numbering

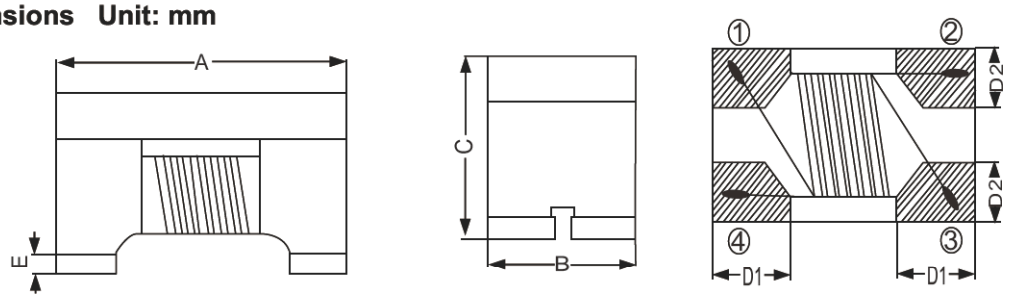
CMMW 2012 B 900 D T E
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Chip Size（mm）:Length X Width
(3) Material type : With maganetic shield(B/D/H)
(4)Nominal Impedance:900=90Ω;
101=100Ω;
(5) Rated Curren：A=250mA; B=300mA;
C=350mA;D=400mA;
E=1000mA;F=1500mA;
G=3000mA;
(6) Company Code;
(7) Taping style.

◆ Equivalent Circuit Diagram



◆ Dimensions Unit: mm



Series	A(mm)	B(mm)	C(mm)	D1(mm)	D2(mm)	E(mm)
CMMW1608	1.6 ± 0.1	0.8± 0.1	1.1± 0.1	0.33±0.1	0.25±0.1	0.12±0.1
CMMW2012	2.0±0.2	1.2±0.2	1.2±0.2	0.55±0.1	0.46±0.1	0.15±0.1
CMMW3216	3.2±0.2	1.6±0.2	1.9±0.2	0.6±0.1	0.6±0.1	0.17±0.1
CMMW4532	4.5±0.2	3.2±0.2	2.8±0.2	1.2±0.1	1.0±0.1	0.19±0.1

Wire-wound Common Mode Filter
CMMW-B Series

◆ SPECFICATIONS

Part Number	Common mode Impedance Z(Ω)	Test Frequency （MHz）	DC Resistance (Ω) max.	Rated Current (mA)	Rated Volt. (Vdc)	Withstand Volt. (Vdc)	IR (Ω) min.
CMMW1608B Series							
CMMW1608B670BTE	67±25%	100	0.30	300	50	125	10M
CMMW1608B900BTE	90±25%	100	0.30	300	50	125	10M
CMMW1608B121ATE	120±25%	100	0.36	250	50	125	10M
CMMW1608B161ATE	160±25%	100	0.40	250	50	125	10M
CMMW1608B221ATE	220±25%	100	0.42	250	50	125	10M
CMMW2012B Series							
CMMW2012B670DTE	67±25%	100	0.25	400	50	125	10M
CMMW2012B900DTE	90±25%	100	0.30	400	50	125	10M
CMMW2012B121DTE	120±25%	100	0.30	400	50	125	10M
CMMW2012B161CTE	160±25%	100	0.35	350	50	125	10M
CMMW2012B181CTE	180±25%	100	0.35	350	50	125	10M
CMMW2012B201BTE	200±25%	100	0.40	300	50	125	10M
CMMW2012B221BTE	220±25%	100	0.40	300	50	125	10M
CMMW2012B261BTE	260±25%	100	0.40	300	50	125	10M
CMMW2012B361BTE	360±25%	100	0.45	300	50	125	10M
CMMW2012B371BTE	370±25%	100	0.45	300	50	125	10M
CMMW3216B Series							
CMMW3216B900DTE	90±25%	100	0.30	450	50	125	20M
CMMW3216B121DTE	120±25%	100	0.35	400	50	125	10M
CMMW3216B161CTE	160±25%	100	0.40	350	50	125	10M
CMMW3216B201CTE	200±25%	100	0.45	350	50	125	10M
CMMW3216B221BTE	220±25%	100	0.45	300	50	125	10M
CMMW3216B261BTE	260±25%	100	0.50	300	50	125	10M
CMMW3216B361BTE	360±25%	100	0.60	300	50	125	10M
CMMW3216B601ATE	600±25%	100	0.80	250	50	125	10M
CMMW3216B102ATE	1000±25%	100	1.00	250	50	125	10M
CMMW3216B222ATE	2200±25%	100	1.20	250	50	125	10M
CMMW4532 Series							
CMMW4532B800GTE	80±25%	100	0.07	3000	50	125	10M
CMMW4532B900GTE	90±25%	100	0.07	3000	50	125	10M
CMMW4532B121GTE	120±25%	100	0.07	3000	50	125	10M
CMMW4532B601FTE	600±25%	100	0.30	1500	50	125	10M
CMMW4532B102ETE	1000±25%	100	0.40	1000	50	125	10M
CMMW4532B142FTE	1400±25%	100	0.20	1500	50	125	10M

Multilayer Chip Ferrite Bead
CMBM Series

◆ Features

1、Internal silver printed layers and magnetic shielded structures to minimize crosstalk;
2、It has sharp impedance characteristics at desirable frequency and does not affect the signal frequency;
3、SMD Type & suitable for reflow and wave soldering;
4、Four types material and wide range of impedance values for various applications;
5、Excellent solderability and heat resistance;
6、RoHS Compliant.



◆ Applications

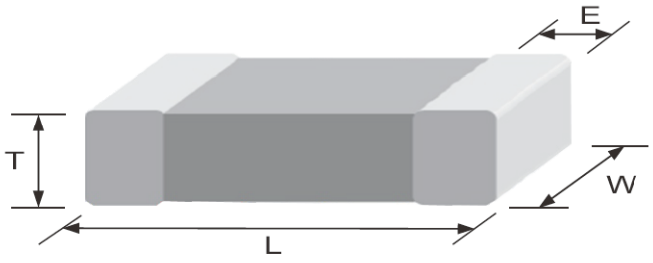
Filtering between analog and digital circuitry, clock Generation circuitry, I/O interconnects, isolation between RF noisy circuits and logic devices susceptible to functional degradation, power supply filtering to prevent conducted RF energy from corrupting the power generation circuitry, high frequency EMI prevention of computer, printers, VCRs, TVs and portable telephones.

◆ Lead Free Part Numbering

CMBM 1608 K 601 A S P
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Chip Size（mm）:Length X Width;
(3) Material Code;
(4) Nominal Impedance:600=60Ω;
601=600Ω;
102=1000Ω;
(5) Rated Curren：A=50mA; B=100mA;
C=150mA;D=200mA;E=300mA;
F=400mA;G=500mA;H=600mA;
I=700mA;J=800mA;K=900mA;
L=1000mA.
(6) Company Code;
(7) Taping style.

◆ Dimensions Unit: mm



Size(EIA)	0603 (0201)	1005 (0402)	1608 (0603)	2012 (0805)
L	0.60±0.03	1.00±0.10	1.60±0.150	2.00±0.20
W	0.30±0.03	0.50±0.10	0.80±0.150	1.25±0.20
T	0.30±0.03	0.50±0.10	0.80±0.150	0.90±0.20
E	0.15±0.05	0.25±0.10	0.30±0.20	0.50±0.30

Multilayer Chip Ferrite Bead
CMBM Series

◆ SPECFICATIONS

Part Number	Impedance (Ω)	Test Frequency (MHz)	DCR Max. (Ω)	Rated Current (mA)
CMBM0603 Series				
CMBM0603G100DSP	10±25%	100	0.25	200
CMBM0603G220DSP	22±25%	100	0.45	200
CMBM0603G600DSP	60±25%	100	0.70	200
CMBM0603G800DSP	80±25%	100	0.90	200
CMBM0603G121DSP	120±25%	100	1.00	200
CMBM0603G601DSP	600±25%	100	1.70	200
CMBM1005 Series				
CMBM1005G050HSP	0~15	100	0.15	600
CMBM1005G300HSP	30±25%	100	0.15	600
CMBM1005G600HSP	60±25%	100	0.20	600
CMBM1005G750GSP	75±25%	100	0.30	500
CMBM1005G101GSP	100±25%	100	0.35	500
CMBM1005G121GSP	120±25%	100	0.40	500
CMBM1005G221GSP	220±25%	100	0.70	500
CMBM1005K301GSP	300±25%	100	0.80	500
CMBM1005K601GSP	600±25%	100	1.00	500
CMBM1005K102ESP	1000±25%	100	1.20	300
CMBM1005B152BSP	1500±25%	100	1.40	100
CMBM1005B182ASP	1800±25%	100	1.80	50
CMBM1608 Series				
CMBM1608G050JSP	0~15	100	0.05	800
CMBM1608G300JSP	30±25%	100	0.05	800
CMBM1608G600HSP	60±25%	100	0.10	600
CMBM1608G900HSP	90±25%	100	0.15	600
CMBM1608G121HSP	120±25%	100	0.20	600
CMBM1608G221GSP	220±25%	100	0.30	500
CMBM1608G331GSP	330±25%	100	0.35	500
CMBM1608G471GSP	470±25%	100	0.45	500
CMBM1608G601GSP	600±25%	100	0.50	500
CMBM1608G102ESP	1000±25%	100	0.60	300
CMBM1608G152CSP	1500±25%	100	0.75	150
CMBM1608K202BSP	2000±25%	100	1.00	100
CMBM1608K222BSP	2200±25%	100	1.00	100
CMBM1608K252BSP	2500±25%	100	1.20	100

◆ SPECFICATIONS

Part Number	Impedance	Test Frequency	DCR Max.	Rated Current
	(Ω)	（MHz）	(Ω)	(mA)
CMBM2012 Series				
CMBM2012G050LSP	0~15	100	0.07	1000
CMBM2012G300LSP	30±25%	100	0.10	1000
CMBM2012G600JSP	60±25%	100	0.20	800
CMBM2012G121JSP	120±25%	100	0.22	800
CMBM2012G221HSP	220±25%	100	0.25	600
CMBM2012G301HSP	300±25%	100	0.30	600
CMBM2012G421HSP	420±25%	100	0.30	600
CMBM2012G601HSP	600±25%	100	0.35	600
CMBM2012G102FSP	1000±25%	100	0.40	500
CMBM2012G152DSP	1500±25%	100	0.45	200
CMBM2012G222DSP	2200±25%	100	0.60	200
CMBM2012G252DSP	2500±25%	100	0.70	200
CMBM2012G272DSP	2700±25%	100	0.80	200

◆ Package

Size EIA (EIA)	0603 (0201)	1005 (0402)	1608 (0603)	2012 (0805)
Standard Packing Quantity (pcs / reel)	15,000	10,000	4,000	4,000

High Current Chip Ferrite Bead
CMBH Series

◆ Features

1、Internal silver printed layers and magnetic shielded structures to minimize crosstalk;
2、Large withstand current (allowable current:up to 6A);
3、Can be used in a wide range of frequency to suppress EMI;
4、Three types material and wide range of impedance values for various applications;
5、RoHS Compliant.



◆ Applications

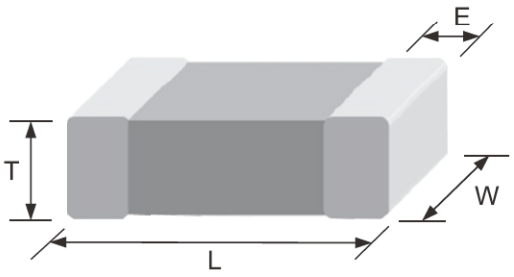
1、High current DC power lines;
2、Noise suppression for power line or large current signal of electric equipments such as computers and peripheral devices, DVD cameras, LCD TVs, communication equipments, OA equipments, etc.

◆ Lead Free Part Numbering

CMBH 1608 S 601 J S P
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Chip Size（mm）:Length X Width;
(3) Material Code;
(4) Nominal Impedance:600=60Ω;
601=600Ω; 102=1000Ω;
(5) Rated Curren： E=300mA;F=500mA;
J=800mA;L =1000mA;
M=1500mA;N=2000mA;
P=2500mA;Q=3000mA;
R=4000mA;U=5000mA;
W=6000mA.
(6) Company Code;
(7) Taping style.

◆ Dimensions Unit: mm



Size(EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)	4532 (1812)
L	1.00±0.10	1.60±0.150	2.00±0.20	3.20±0.20	4.50±0.20
W	0.50±0.10	0.80±0.150	1.25±0.20	1.60±0.20	3.20±0.20
T	0.50±0.10	0.80±0.150	0.90±0.20	1.10±0.20	1.50±0.20
E	0.25±0.10	0.30±0.20	0.50±0.30	0.50±0.30	0.50±0.30

High Current Chip Ferrite Bead
CMBH Series

◆ SPECFICATIONS

Part Number	Impedance	Test Frequency	DCR Max.	Rated Current
	(Ω)	（MHz）	(Ω)	(mA)
CMBH1005 Series				
CMBH1005S100PSP	10±25%	100	0.05	2500
CMBH1005S300PSP	30±25%	100	0.06	2500
CMBH1005S600PSP	60±25%	100	0.07	2500
CMBH1005S900NSP	90±25%	100	0.09	2000
CMBH1005S121NSP	120±25%	100	0.095	2000
CMBH1005S221JSP	220±25%	100	0.13	1000
CMBH1005S601JSP	600±25%	100	0.34	800
CMBH1005S102FSP	1000±25%	100	0.83	500
CMBH1608 Series				
CMBH1608S100QSP	10±25%	100	0.04	3000
CMBH1608S300QSP	30±25%	100	0.04	3000
CMBH1608S600QSP	60±25%	100	0.04	3000
CMBH1608S900QSP	90±25%	100	0.04	3000
CMBH1608S121QSP	120±25%	100	0.07	3000
CMBH1608S181NSP	180±25%	100	0.08	2000
CMBH1608S221NSP	220±25%	100	0.09	2000
CMBH1608S301LSP	300±25%	100	0.11	1000
CMBH1608S471LSP	470±25%	100	0.15	1000
CMBH1608S601LSP	600±25%	100	0.2	1000
CMBH1608S102LSP	1000±25%	100	0.3	1000
CMBH1608S152FSP	1500±25%	100	0.4	500
CMBH2012 Series				
CMBH2012S110USP	11±25%	100	0.015	5000
CMBH2012S300USP	30±25%	100	0.03	5000
CMBH2012S600RSP	60±25%	100	0.035	4000
CMBH2012S900QSP	90±25%	100	0.04	3000
CMBH2012S101QSP	100±25%	100	0.042	3000
CMBH2012S121QSP	120±25%	100	0.055	3000
CMBH2012S151QSP	150±25%	100	0.057	3000
CMBH2012S181QSP	180±25%	100	0.06	3000
CMBH2012S221QSP	220±25%	100	0.075	3000
CMBH2012S301NSP	300±25%	100	0.08	2000

High Current Chip Ferrite Bead
CMBH Series

◆ SPECFICATIONS

Part Number	Impedance	Test Frequency	DCR Max.	Rated Current
	(Ω)	（MHz）	(Ω)	(mA)
CMBH2012 Series				
CMBH2012S601NSP	600±25%	100	0.09	2000
CMBH2012S102LSP	1000±25%	100	0.12	1000
CMBH3216Series				
CMBH3216S300WSP	30±25%	100	0.01	6000
CMBH3216S600USP	60±25%	100	0.015	5000
CMBH3216S750RSP	75±25%	100	0.02	4000
CMBH3216S900QSP	90±25%	100	0.025	3000
CMBH3216S121PSP	120±25%	100	0.03	2500
CMBH3216S181PSP	180±25%	100	0.037	2500
CMBH3216S221NSP	220±25%	100	0.045	2000
CMBH3216S391NSP	390±25%	100	0.1	2000
CMBH3216S601NSP	600±25%	100	0.1	2000
CMBH3216S102LSP	1000±25%	100	0.3	1000
CMBH4532 Series				
CMBH4532S600WSP	60±25%	100	0.01	6000
CMBH4532S101WSP	100±25%	100	0.015	6000
CMBH4532S121USP	120±25%	100	0.02	5000
CMBH4532S181RSP	180±25%	100	0.025	4000
CMBH4532S221QSP	220±25%	100	0.04	3000
CMBH4532S601NSP	600±25%	100	0.05	2000
CMBH4532S102NSP	1000±25%	100	0.06	2000

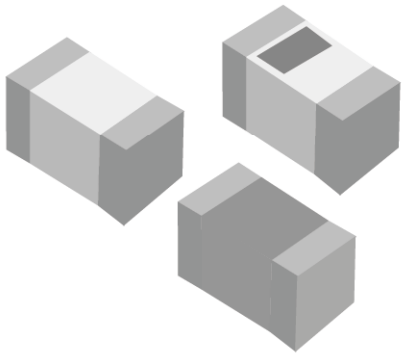
◆ Package

Size EIA (EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)
Standard Packing Quantity (pcs / reel)	10,000	4,000	4,000	4,000
	4532 (1812)			
	1,000			

Multilayer Chip Ceramic Inductor
CMCC-C Series

◆ Features

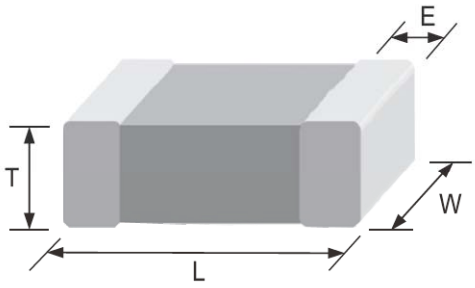
1、Monolithic Structure for high reliability;
2、High self-resonant frequency;
3、Excellent solderability and high heat resistance;
4、RoHS Compliant.



◆ Applications

1、RF Circuit of in telecommunication and other Equipments.

◆ Dimensions Unit: mm



◆ Lead Free Part Numbering

CMCC 1005 C 1N0 S S P
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Chip Size（mm）:Length X Width;
(3) Material Code;
(4) Inductance：1N0=1nH；10N=10nH;
R10=100nH;
(5) Inductance Tolerance：B=±0.1; C=±0.2;
S=±0.3; J=±5%;
(6) Company Code;
(7) Packaging:P–Embossed paper tape, 7" reel
E- Embossed plastic tape, 7" reel.

Size(EIA)	0603 (0201)	1005 (0402)	1608 (0603)	2012 (0805)
L	0.60±0.05	1.00±0.10	1.60±0.150	2.0 ±0.2
W	0.30±0.05	0.50±0.10	0.80±0.150	1.25±0.2
T	0.30±0.05	0.50±0.10	0.80±0.150	0.85±0.2
E	0.20±0.10	0.25±0.10	0.30±0.200	0.50±0.2

Multilayer Chip Ceramic Inductor
CMCC-C Series

◆ SPECFICATIONS

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (GHz)					Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current (mA)
				0.5	0.8	1.8	2	2.4			
				Q							
CMCC0603 Series											
CMCC0603C0N6◇SP	0.6	13	500	>24	>32	>54	>57	>65	10000	0.06	600
CMCC0603C0N7◇SP	0.7	13	500	>24	>32	>54	>57	>65	10000	0.06	550
CMCC0603C0N8◇SP	0.8	13	500	>24	>32	>54	>57	>65	10000	0.07	550
CMCC0603C0N9◇SP	0.9	13	500	>24	>32	>54	>57	>65	10000	0.07	550
CMCC0603C1N0◇SP	1.0	13	500	24	32	54	57	65	10000	0.08	520
CMCC0603C1N1◇SP	1.1	13	500	19	26	45	47	55	10000	0.11	440
CMCC0603C1N2◇SP	1.2	13	500	19	25	43	44	52	10000	0.12	420
CMCC0603C1N3◇SP	1.3	13	500	19	25	40	42	47	10000	0.12	420
CMCC0603C1N4◇SP	1.4	13	500	19	24	39	41	47	10000	0.11	440
CMCC0603C1N5◇SP	1.5	13	500	19	24	39	41	46	10000	0.12	420
CMCC0603C1N6◇SP	1.6	13	500	19	24	39	41	46	10000	0.13	410
CMCC0603C1N7◇SP	1.7	13	500	19	24	39	41	46	10000	0.15	380
CMCC0603C1N8◇SP	1.8	13	500	19	24	39	41	46	10000	0.15	380
CMCC0603C1N9◇SP	1.9	13	500	18	24	38	40	45	10000	0.18	350
CMCC0603C2N0◇SP	2.0	13	500	17	24	38	39	44	10000	0.23	300
CMCC0603C2N1◇SP	2.1	13	500	17	24	37	39	44	10000	0.24	300
CMCC0603C2N2◇SP	2.2	13	500	17	24	38	40	43	10000	0.25	290
CMCC0603C2N3◇SP	2.3	13	500	17	24	37	39	43	10000	0.2	330
CMCC0603C2N4◇SP	2.4	13	500	17	23	36	38	42	10000	0.22	310
CMCC0603C2N5◇SP	2.5	13	500	17	23	35	36	40	9600	0.2	330
CMCC0603C2N6◇SP	2.6	13	500	17	22	34	35	39	9400	0.2	330
CMCC0603C2N7◇SP	2.7	13	500	17	22	34	35	39	9200	0.22	310
CMCC0603C2N8◇SP	2.8	13	500	17	22	34	35	39	8900	0.24	300
CMCC0603C2N9◇SP	2.9	13	500	17	22	34	35	39	8800	0.26	280
CMCC0603C3N0◇SP	3.0	13	500	17	22	34	35	39	8600	0.26	280
CMCC0603C3N1◇SP	3.1	13	500	17	22	34	35	39	8500	0.28	270
CMCC0603C3N2◇SP	3.2	13	500	17	22	33	35	39	8200	0.28	270
CMCC0603C3N3◇SP	3.3	13	500	18	23	34	36	40	8100	0.3	270
CMCC0603C3N4◇SP	3.4	13	500	17	23	33	35	39	8000	0.3	270
CMCC0603C3N5◇SP	3.5	13	500	17	23	33	35	39	7900	0.34	250

Multilayer Chip Ceramic Inductor
CMCC-C Series

◆ SPECFICATIONS

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (GHz)					Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current（mA）
				0.5	0.8	1.8	2	2.4			
				Q							
CMCC0603C Series											
CMCC0603C3N6◇SP	3.6	13	500	16	23	33	35	39	7700	0.38	240
CMCC0603C3N7◇SP	3.7	13	500	16	23	33	35	38	7600	0.4	230
CMCC0603C3N8◇SP	3.8	13	500	16	22	33	35	38	7500	0.42	230
CMCC0603C3N9◇SP	3.9	13	500	16	22	33	35	38	7400	0.42	230
CMCC0603C4N3◇SP	4.3	13	500	16	21	32	34	37	6800	0.44	220
CMCC0603C4N7◇SP	4.7	13	500	16	22	33	35	38	6200	0.45	220
CMCC0603C5N1◇SP	5.1	13	500	17	22	34	36	38	5900	0.46	210
CMCC0603C5N6◇SP	5.6	13	500	16	21	33	34	37	5500	0.46	210
CMCC0603C6N2◇SP	6.2	13	500	18	23	34	35	37	5100	0.48	210
CMCC0603C6N8◇SP	6.8	13	500	17	22	32	33	35	4900	0.5	200
CMCC0603C7N5◇SP	7.5	13	500	16	21	31	33	34	4700	0.5	200
CMCC0603C8N2◇SP	8.2	13	500	16	21	31	32	34	4300	0.56	190
CMCC0603C9N1◇SP	9.1	13	500	16	20	30	31	32	4100	0.72	170
CMCC0603C10N◇SP	10	13	500	16	20	28	29	31	3800	0.8	160
CMCC0603C12N◇SP	12	13	500	16	20	27	28	28	3400	0.8	160
CMCC0603C15N◇SP	15	13	500	15	19	24	24	23	2600	0.85	160
CMCC0603C18N◇SP	18	13	500	15	19	23	24	22	2300	1	140
CMCC0603C22N◇SP	22	13	500	15	19	22	23	20	1900	1.2	130
CMCC0603C27N◇SP	27	13	500	15	19	15	13	8	1800	1.6	120
CMCC0603C33N◇SP	33	11	300	14	15	8	5	-	1800	2.2	110
CMCC0603C39N◇SP	39	11	300	14	15	6	-	-	1600	2.3	100
CMCC0603C47N◇SP	47	11	300	14	15	-	-	-	1500	2.6	100
CMCC0603C56N◇SP	56	11	300	13	13	-	-	-	1400	2.8	80
CMCC0603C68N◇SP	68	11	300	13	11	-	-	-	1200	3.2	80
CMCC0603C82N◇SP	82	10	300	12	10	-	-	-	1100	3.8	70
CMCC0603CR10◇SP	100	10	300	12	10	-	-	-	1000	4	60
CMCC0603CR12◇SP	120	9	300	12	8	-	-	-	1000	5	50

Multilayer Chip Ceramic Inductor
CMCC-C Series

◆ SPECFICATIONS

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (MHz)						Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current (mA)
				100	300	500	800	1000	1800			
				Q								
CMCC1005C Series												
CMCC1005C1N0SSP	1.0±0.3	8	100	11	21	25	33	35	52	6000	0.1	400
CMCC1005C1N1SSP	1.1±0.3	8	100	11	21	25	33	35	52	6000	0.1	400
CMCC1005C1N2SSP	1.2±0.3	8	100	11	21	25	33	35	52	6000	0.1	400
CMCC1005C1N3SSP	1.3±0.3	8	100	11	21	25	33	35	52	6000	0.12	400
CMCC1005C1N5SSP	1.5±0.3	8	100	11	21	25	33	35	52	6000	0.13	400
CMCC1005C1N8SSP	1.8±0.3	8	100	10	18	21	29	32	49	6000	0.14	400
CMCC1005C2N0SSP	2.0±0.3	8	100	10	17	21	28	32	47	6000	0.15	400
CMCC1005C2N2SSP	2.2±0.3	8	100	10	17	21	28	31	47	6000	0.16	400
CMCC1005C2N4SSP	2.4±0.3	8	100	10	17	21	28	31	46	5500	0.16	400
CMCC1005C2N7SSP	2.7±0.3	8	100	10	17	21	28	31	46	5500	0.17	400
CMCC1005C3N0SSP	3.0±0.3	8	100	10	17	21	28	31	46	5500	0.18	400
CMCC1005C3N3SSP	3.3±0.3	8	100	10	17	21	28	31	46	5500	0.19	400
CMCC1005C3N6SSP	3.6±0.3	8	100	10	17	21	28	31	45	5200	0.22	400
CMCC1005C3N9SSP	3.9±0.3	8	100	10	17	21	28	31	45	5200	0.22	400
CMCC1005C4N3SSP	4.3±0.3	8	100	10	17	21	28	31	45	4800	0.24	400
CMCC1005C4N7SSP	4.7±0.3	8	100	10	17	21	28	31	45	4800	0.24	400
CMCC1005C5N1SSP	5.1±0.3	8	100	10	17	21	25	29	44	4600	0.26	400
CMCC1005C5N6SSP	5.6±0.3	8	100	10	17	21	25	29	44	4600	0.27	400
CMCC1005C6N2SSP	6.2±0.3	8	100	10	17	21	25	29	44	4200	0.3	300
CMCC1005C6N8JSP	6.8	8	100	10	18	21	26	30	44	4000	0.32	300
CMCC1005C7N5JSP	7.5	8	100	10	18	21	26	30	43	3600	0.37	300
CMCC1005C8N2JSP	8.2	8	100	10	18	21	26	30	43	3600	0.37	300
CMCC1005C9N1JSP	9.1	8	100	10	18	21	26	30	42	3200	0.42	300
CMCC1005C10NJSP	10	8	100	10	18	21	26	30	42	3200	0.42	300
CMCC1005C12NJSP	12	8	100	10	17	21	24	27	33	2800	0.5	300
CMCC1005C15NJSP	15	8	100	10	17	20	23	26	27	2500	0.55	300
CMCC1005C18NJSP	18	8	100	10	17	20	21	23	9	2200	0.65	300
CMCC1005C22NJSP	22	8	100	10	18	21	22	23	-	2000	0.8	200
CMCC1005C27NJSP	27	8	100	10	18	20	21	22	-	1600	0.9	200
CMCC1005C33NJSP	33	8	100	10	18	20	21	21	-	1300	1	200
CMCC1005C39NJSP	39	8	100	10	18	19	20	17	-	1200	1.2	150

Multilayer Chip Ceramic Inductor
CMCC-C Series

◆ SPECFICATIONS

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (MHz)						Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current (mA)
				100	300	500	800	1000	1800			
				Q								
CMCC1005C Series												
CMCC1005C47NJSP	47	8	100	10	18	19	18	-	-	1000	1.3	150
CMCC1005C56NJSP	56	8	100	10	18	19	13	-	-	900	1.6	150
CMCC1005C68NJSP	68	8	100	10	18	19	13	-	-	800	2.1	150
CMCC1005C82NJSP	82	8	100	10	18	19	13	-	-	750	2.4	150
CMCC1005CR10JSP	100	8	100	10	18	19	12	-	-	700	2.6	150
CMCC1005CR12JSP	120	8	100	10	18	19	-	-	-	600	2.8	150
CMCC1005CR15JSP	150	8	100	10	17	8	-	-	-	550	3.2	100
CMCC1005CR18JSP	180	8	100	10	17	-	-	-	-	500	3.7	100
CMCC1005CR22JSP	220	8	100	12	14	-	-	-	-	450	4	100
CMCC1005CR27JSP	270	8	100	12	12	-	-	-	-	400	4.5	100
CMCC1005CR30JSP	300	5	50	12	-	-	-	-	-	350	7	50
CMCC1005CR33JSP	330	5	50	8	-	-	-	-	-	350	7	50
CMCC1005CR36JSP	360	5	50	12	-	-	-	-	-	300	7.5	50
CMCC1608C Series												
CMCC1608C1N0SSP	1.0±0.3	8	100	12	22	37	38	68	85	6000	0.1	500
CMCC1608C1N2SSP	1.2±0.3	8	100	12	22	37	38	68	85	6000	0.1	500
CMCC1608C1N5SSP	1.5±0.3	8	100	12	22	37	38	68	85	6000	0.1	500
CMCC1608C1N8SSP	1.8±0.3	8	100	12	21	33	35	61	85	6000	0.12	500
CMCC1608C2N2SSP	2.2±0.3	8	100	12	26	40	39	60	85	6000	0.2	500
CMCC1608C2N7SSP	2.7±0.3	8	100	12	23	27	37	47	85	6000	0.2	500
CMCC1608C3N3SSP	3.3±0.3	8	100	12	23	27	36	47	77	6000	0.2	500
CMCC1608C3N9SSP	3.9±0.3	8	100	12	25	28	38	47	73	6000	0.2	500
CMCC1608C4N7SSP	4.7±0.3	8	100	12	26	30	38	49	81	6000	0.2	500
CMCC1608C5N6SSP	5.6±0.3	8	100	12	26	29	35	34	28	5000	0.3	500
CMCC1608C6N2SSP	6.2±0.3	8	100	12	26	29	35	34	28	5000	0.3	500
CMCC1608C6N8JSP	6.8	8	100	12	23	27	35	40	63	4500	0.3	500
CMCC1608C8N2JSP	8.2	8	100	12	22	26	33	39	50	4000	0.3	500
CMCC1608C10NJSP	10	8	100	14	25	31	38	45	64	3500	0.5	300
CMCC1608C12NJSP	12	8	100	14	24	28	35	39	50	2800	0.5	300
CMCC1608C15NJSP	15	8	100	14	22	27	34	40	45	2300	0.6	300
CMCC1608C18NJSP	18	8	100	14	24	28	35	38	37	2200	0.6	300

Multilayer Chip Ceramic Inductor
CMCC-C Series

◆ SPECFICATIONS

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (MHz)						Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current (mA)
				100	300	500	800	1000	1800			
				Q								
CMCC1608C Series												
CMCC1608C22NJSP	22	8	100	15	27	32	38	43	36	2000	0.6	300
CMCC1608C27NJSP	27	8	100	15	26	29	36	44	25	1700	0.8	300
CMCC1608C33NJSP	33	8	100	15	26	30	35	34	6	1500	0.8	300
CMCC1608C39NJSP	39	8	100	15	22	25	28	28	-	1300	0.8	300
CMCC1608C47NJSP	47	8	100	15	25	29	30	25	-	1200	1	300
CMCC1608C56NJSP	56	8	100	15	28	31	31	25	-	1100	1	300
CMCC1608C68NJSP	68	8	100	15	22	25	22	15	-	900	1	300
CMCC1608C82NJSP	82	8	100	15	23	24	22	-	-	800	1	300
CMCC1608CR10JSP	100	8	100	15	25	27	16	-	-	700	1.2	300
CMCC1608CR12JSP	120	8	50	15	24	23	-	-	-	600	1.4	200
CMCC1608CR15JSP	150	8	50	15	19	16	-	-	-	500	1.6	200
CMCC1608CR18JSP	180	8	50	15	18	12	-	-	-	400	1.9	200
CMCC1608CR22JSP	220	8	50	15	16	-	-	-	-	350	2.4	200
CMCC1608CR27JSP	270	8	50	16	18	-	-	-	-	350	2.6	150
CMCC1608CR33JSP	330	8	50	16	16	-	-	-	-	350	2.8	150
CMCC1608CR39JSP	390	8	50	16	-	-	-	-	-	300	3.2	150
CMCC1608CR43JSP	430	8	50	16	-	-	-	-	-	280	3.4	150
CMCC1608CR47JSP	470	8	50	15	-	-	-	-	-	250	3.6	150
CMCC1608CR56JSP	560	8	50	15						250	4	100
CMCC1608CR68JSP	680	8	50	15						250	4.5	100
CMCC2012C Series												
CMCC2012C1N5SSP	1.5±0.3	10	100	21	-	-	61	85	-	6000	0.1	500
CMCC2012C1N8SSP	1.8±0.3	10	100	20	-	-	55	80	-	6000	0.1	500
CMCC2012C2N2SSP	2.2±0.3	10	100	20	-	-	53	75	-	6000	0.1	500
CMCC2012C2N7SSP	2.7±0.3	12	100	18	-	-	56	70	-	5500	0.1	500
CMCC2012C3N3SSP	3.3±0.3	12	100	18	-	-	54	65	-	5000	0.13	500
CMCC2012C3N9SSP	3.9±0.3	12	100	18	-	-	54	60	-	4500	0.15	500
CMCC2012C4N7SSP	4.7±0.3	12	100	18	-	-	55	65	-	4000	0.2	500
CMCC2012C5N6SSP	5.6±0.3	15	100	18	-	-	60	66	-	3500	0.23	500
CMCC2012C6N8JSP	6.8	15	100	18	-	-	63	68	-	3000	0.25	500
CMCC2012C8N2JSP	8.2	15	100	20	-	-	63	70	-	2500	0.28	500

Multilayer Chip Ceramic Inductor
CMCC-C Series

◆ SPECFICATIONS

Part Number	Inductance (nH)	Min. Quality Factor (Q)	L, Q Test Freq. L/Q(MHz)	Typical Q @ Freq. (MHz)						Min. Self-resonant Frequency (MHz)	Max. DC Resistance (Ω)	Max. Rated Current (mA)
				100	300	500	800	1000	1800			
				Q								
CMCC2012C Series												
CMCC2012C10NJSP	10	15	100	21	-	-	60	70	-	2200	0.3	500
CMCC2012C12NJSP	12	15	100	20	-	-	60	70	-	2000	0.35	500
CMCC2012C15NJSP	15	15	100	20	-	-	63	65	-	1800	0.4	500
CMCC2012C18NJSP	18	15	100	22	-	-	63	60	-	1600	0.45	300
CMCC2012C22NJSP	22	15	100	19	-	-	60	45	-	1500	0.5	300
CMCC2012C27NJSP	27	15	100	19	-	-	58	38	-	1400	0.55	300
CMCC2012C33NJSP	33	15	100	19	-	-	55	30	-	1300	0.6	300
CMCC2012C39NJSP	39	15	100	19	-	-	47	26	-	1100	0.65	300
CMCC2012C47NJSP	47	18	100	23	-	-	43	20	-	1000	0.7	300
CMCC2012C56NJSP	56	18	100	22	-	-	39	10	-	900	0.75	300
CMCC2012C68NJSP	68	18	100	22	-	-	30	-	-	850	0.8	300
CMCC2012C82NJSP	82	18	100	22	-	-	-	-	-	800	0.9	300
CMCC2012CR10JSP	100	18	100	22	-	-	-	-	-	700	0.9	300
CMCC2012CR12JSP	120	13	50	19	-	-	-	-	-	600	0.95	300
CMCC2012CR15JSP	150	13	50	19	-	-	-	-	-	550	1.2	300
CMCC2012CR18JSP	180	13	50	19	-	-	-	-	-	500	1.3	300
CMCC2012CR22JSP	220	12	50	20	-	-	-	-	-	400	1.5	300
CMCC2012CR27JSP	270	12	50	20	-	-	-	-	-	350	1.8	300
CMCC2012CR33JSP	330	12	50	18	-	-	-	-		300	2	300
CMCC2012CR39JSP	390	10	50	17	-	-	-	-		250	2	300
CMCC2012CR47JSP	470	10	50	17	-	-	-	-		200	2	300

◆ Package

Size EIA (EIA)	0630 (0201)	1005 (0402)	1608 (0603)	2012 (0805)
Standard Packing Quantity (pcs / reel)	15,000	10,000	4,000	4,000

Multilayer Chip Ferrite Inductor
CMCL Series

◆ Features

1、Monolithic structure for high reliability;
2、Compact size inductor possible;
3、No cross coupling due to magnetic shield;
4、Perfect shape for mounting with no directionality;
5、Excellent solderability and high heat resistance; for reflow soldering or wave soldering;
6、RoHS Compliant.



◆ Applications

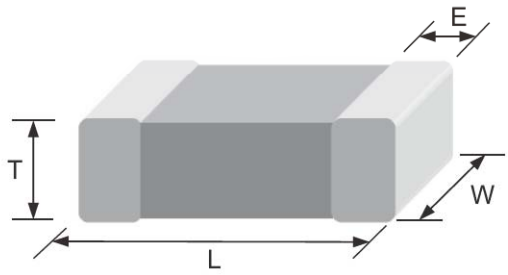
Widely use in Communications, Video and audio equipment, Computer, Remote control, etc.

◆ Lead Free Part Numbering

CMCL 1608 S 1R0 K S P
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Chip Size（mm）:Length X Width;
(3) Material Code;
(4) Inductance：47N=0.047μH；R10=0.10μH;
1R0=1.0μH；100=10μH;
(5) Inductance Tolerance：K=±10%, M=±20%;
(6) Company Code;
(7) Packaging:P–Embossed paper tape, 7" reel
E- Embossed plastic tape, 7" reel.

◆ Dimensions Unit: mm



Size(EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)
L	1.00±0.10	1.60±0.150	2.00±0.20	3.20±0.20
W	0.50±0.10	0.80±0.150	1.25±0.20	1.60±0.20
T	0.50±0.10	0.80±0.150	0.90±0.20	1.10±0.20
E	0.25±0.10	0.30±0.20	0.50±0.30	0.50±0.30

Multilayer Chip Ferrite Inductor
CMCL Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.L/Q	Min.Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
	(μH)	（Q）	Freq. (MHz)	S.R.F(MHz)	DCR(Ω)	Ir(mA)
CMCL1005 Series						
CMCL1005L47NKSP	0.047	10	50	220	0.45	25
CMCL1005L68NKSP	0.068	10	50	210	0.45	25
CMCL1005L82NKSP	0.082	10	50	200	0.45	25
CMCL1005LR10KSP	0.1	10	25	200	0.80	25
CMCL1005LR12KSP	0.12	10	25	165	0.80	25
CMCL1005LR15KSP	0.15	10	25	140	0.90	25
CMCL1005LR18KSP	0.18	10	25	120	0.90	25
CMCL1005LR22KSP	0.22	10	25	110	1.20	25
CMCL1005LR27KSP	0.27	15	25	95	1.20	25
CMCL1005LR33KSP	0.33	15	25	85	1.25	18
CMCL1005QR39KSP	0.39	20	10	85	0.60	15
CMCL1005QR47KSP	0.47	20	10	80	0.70	15
CMCL1005QR56KSP	0.56	20	10	75	0.80	15
CMCL1005QR68KSP	0.68	20	10	70	0.90	15
CMCL1005QR82KSP	0.82	20	10	65	0.90	15
CMCL1005Q1R0KSP	1	20	10	40	0.90	15
CMCL1005Q1R2KSP	1.2	20	10	35	1.20	15
CMCL1005Q1R5KSP	1.5	20	10	30	1.20	15
CMCL1005Q1R8KSP	1.8	20	10	30	1.45	15
CMCL1005Q2R2KSP	2.2	20	10	28	1.70	10
CMCL1005Q2R7KSP	2.7	20	10	28	2.40	10
CMCL1005Q3R3KSP	3.3	20	10	28	2.70	10
CMCL1608 Series						
CMCL1608L47NKSP	0.047	10	50	260	0.30	50
CMCL1608L68NKSP	0.068	10	50	250	0.30	50
CMCL1608L82NKSP	0.082	10	50	245	0.30	50
CMCL1608LR10KSP	0.1	15	25	240	0.50	50
CMCL1608LR12KSP	0.12	15	25	205	0.50	50
CMCL1608LR15KSP	0.15	15	25	180	0.60	50
CMCL1608LR18KSP	0.18	15	25	165	0.60	50
CMCL1608LR22KSP	0.22	15	25	150	0.80	50
CMCL1608LR27KSP	0.27	15	25	136	0.80	50
CMCL1608LR39KSP	0.39	15	25	110	1.00	35

Multilayer Chip Ferrite Inductor
CMCL Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.L/Q	Min.Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
	(μH)	（Q）	Freq. (MHz)	S.R.F(MHz)	DCR(Ω)	Ir(mA)
CMCL1608 Series						
CMCL1608LR47KSP	0.47	15	25	105	1.35	35
CMCL1608LR56KSP	0.56	15	25	95	1.55	35
CMCL1608LR68KSP	0.68	15	25	90	1.70	35
CMCL1608LR82KSP	0.82	15	25	85	2.10	35
CMCL1608Q1R0KSP	1.0	35	10	75	0.60	25
CMCL1608Q1R1KSP	1.1	35	10	75	0.60	25
CMCL1608Q1R2KSP	1.2	35	10	65	0.80	25
CMCL1608Q1R5KSP	1.5	35	10	60	0.80	25
CMCL1608Q1R8KSP	1.8	35	10	55	0.95	25
CMCL1608Q2R2KSP	2.2	35	10	50	1.15	15
CMCL1608Q2R7KSP	2.7	35	10	45	1.35	15
CMCL1608Q3R3KSP	3.3	35	10	40	1.55	15
CMCL1608Q3R9KSP	3.9	35	10	35	1.70	15
CMCL1608Q4R7KSP	4.7	35	10	33	2.10	15
CMCL1608S5R6KSP	5.6	35	4	22	1.55	5
CMCL1608S6R8KSP	6.8	35	4	20	1.70	5
CMCL1608S8R2KSP	8.2	35	4	18	2.10	5
CMCL1608S100KSP	10	30	2	17	1.85	3
CMCL1608S120KSP	12	30	2	15	2.10	3
CMCL1608T150KSP	15	20	1	14	1.70	1
CMCL1608T180KSP	18	20	1	13	1.85	1
CMCL1608T220KSP	22	20	1	11	2.10	1
CMCL1608T270KSP	27	20	1	10	2.75	1
CMCL1608T330KSP	33	20	1	9	2.95	1
CMCL2012 Series						
CMCL2012L47NKSP	0.047	15	50	320	0.20	300
CMCL2012L68NKSP	0.068	15	50	280	0.20	300
CMCL2012L82NKSP	0.082	15	50	255	0.20	300
CMCL2012LR10KSP	0.1	20	25	235	0.30	250
CMCL2012LR12KSP	0.12	20	25	220	0.30	250
CMCL2012LR15KSP	0.15	20	25	200	0.40	250
CMCL2012LR18KSP	0.18	20	25	185	0.40	250
CMCL2012LR22KSP	0.22	20	25	170	0.50	250

Multilayer Chip Ferrite Inductor
CMCL Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.L/Q	Min.Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
	(μH)	(Q)	Freq. (MHz)	S.R.F(MHz)	DCR(Ω)	Ir(mA)
CMCL2012 Series						
CMCL2012LR27KSP	0.27	20	25	150	0.50	250
CMCL2012LR33KSP	0.33	20	25	145	0.55	250
CMCL2012LR39KSP	0.39	25	25	135	0.65	200
CMCL2012LR47KSP	0.47	25	25	125	0.65	200
CMCL2012LR56KSP	0.56	25	25	115	0.75	150
CMCL2012LR68KSP	0.68	25	25	105	0.80	150
CMCL2012LR82KSP	0.82	25	25	100	1.00	150
CMCL2012P1R0KSP	1.0	45	10	75	0.40	50
CMCL2012P1R1KSP	1.1	45	10	65	0.50	50
CMCL2012P1R2KSP	1.2	45	10	65	0.50	50
CMCL2012P1R5KSP	1.5	45	10	60	0.50	50
CMCL2012P1R8KSP	1.8	45	10	55	0.60	50
CMCL2012P2R2KSP	2.2	45	10	50	0.65	30
CMCL2012P2R4KSP	2.4	45	10	47	0.70	30
CMCL2012P2R7KSP	2.7	45	10	45	0.75	30
CMCL2012P3R3KSP	3.3	45	10	41	0.80	30
CMCL2012P3R9KSP	3.9	45	10	38	0.90	30
CMCL2012P4R7KSP	4.7	45	10	35	1.00	30
CMCL2012S5R6KSP	5.6	50	4	32	0.90	15
CMCL2012S6R8KSP	6.8	50	4	29	1.00	15
CMCL2012S8R2KSP	8.2	50	4	26	1.10	15
CMCL2012S100KSP	10	50	2	24	1.15	15
CMCL2012S120KSP	12	50	2	22	1.25	15
CMCL2012T150KSP	15	30	1	19	0.80	5
CMCL2012T180KSP	18	30	1	18	0.90	5
CMCL2012T220KSP	22	30	1	16	1.10	5
CMCL2012T270KSP	27	30	1	14	1.15	5
CMCL2012T330KSP	33	30	0.4	13	1.25	5
CMCL2012T390KSP	39	35	2	8	2.90	4
CMCL2012T470KSP	47	35	2	7.5	3.00	4
CMCL2012T560KSP	56	35	2	7	3.10	4
CMCL2012T680KSP	68	25	1	6.5	2.90	2
CMCL2012T820KSP	82	25	1	6	3.00	2

Multilayer Chip Ferrite Inductor
CMCL Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.L/Q	Min.Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
	(μH)	(Q)	Freq. (MHz)	S.R.F(MHz)	DCR(Ω)	Ir(mA)
CMCL2012 Series						
CMCL2012T101KSP	100	25	1	5.5	3.10	2
CMCL3216 Series						
CMCL3216L47NKSP	0.047	20	50	320	0.15	300
CMCL3216L68NKSP	0.068	20	50	280	0.25	300
CMCL3216LR10KSP	0.1	20	25	235	0.25	250
CMCL3216LR12KSP	0.12	20	25	220	0.30	250
CMCL3216LR15KSP	0.15	20	25	200	0.30	250
CMCL3216LR18KSP	0.18	20	25	185	0.40	250
CMCL3216LR22KSP	0.22	20	25	170	0.40	250
CMCL3216LR27KSP	0.27	20	25	150	0.50	250
CMCL3216LR33KSP	0.33	20	25	145	0.50	250
CMCL3216LR39KSP	0.39	25	25	135	0.50	200
CMCL3216LR47KSP	0.47	25	25	125	0.60	200
CMCL3216LR56KSP	0.56	25	25	115	0.70	150
CMCL3216LR68KSP	0.68	25	25	105	0.80	150
CMCL3216LR82KSP	0.82	25	25	100	0.90	150
CMCL3216Q1R0KSP	1	45	10	75	0.40	100
CMCL3216Q1R2KSP	1.2	45	10	65	0.50	100
CMCL3216Q1R5KSP	1.5	45	10	60	0.50	50
CMCL3216Q1R8KSP	1.8	45	10	55	0.50	50
CMCL3216Q2R2KSP	2.2	45	10	50	0.60	50
CMCL3216Q2R7KSP	2.7	45	10	45	0.60	50
CMCL3216Q3R3KSP	3.3	45	10	41	0.70	50
CMCL3216Q3R9KSP	3.9	45	10	38	0.80	50
CMCL3216Q4R7KSP	4.7	45	10	35	0.90	50
CMCL3216S5R6KSP	5.6	50	4	32	0.70	25
CMCL3216S6R8KSP	6.8	50	4	29	0.80	25
CMCL3216S8R2KSP	8.2	50	4	26	0.90	25
CMCL3216S100KSP	10	50	2	24	1.00	25
CMCL3216S120KSP	12	50	2	22	1.05	15
CMCL3216T150KSP	15	35	1	19	0.70	5
CMCL3216T180KSP	18	35	1	18	0.70	5
CMCL3216T220KSP	22	35	1	16	0.90	5

Multilayer Chip Ferrite Inductor
CMCL Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.L/Q	Min.Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
	(μH)	(Q)	Freq. (MHz)	S.R.F(MHz)	DCR(Ω)	Ir(mA)
CMCL3216 Series						
CMCL3216T270KSP	27	35	1	14	0.9	5
CMCL3216T330KSP	33	35	0.4	13	1.05	5
CMCL3216T390KSP	39	40	2	11	3	5
CMCL3216T470KSP	47	40	2	10	3.4	5

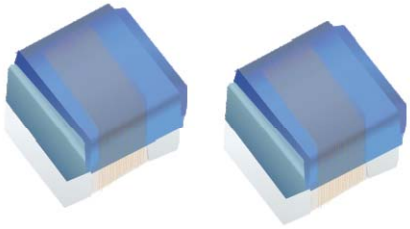
◆ Package

Size EIA (EIA)	1005 (0402)	1608 (0603)	2012 (0805)	3216 (1206)
Standard Packing Quantity (pcs / reel)	10,000	4,000	4,000	4,000

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ Features

1、Small chip suitable for surface mounting;
2、High Q value and high self-resonant frequency with ceramic material;
3、Tight inductance tolerance and stable inductance; at high frequency;



◆ Applications

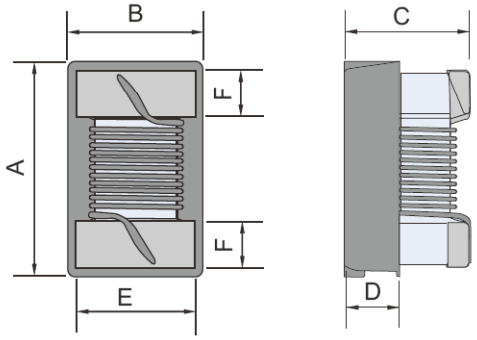
1、High frequency circuit in telecommunication and other equipments;
2、Mobile phones such as GSM, CDMA, PDC, etc;
3、Bluetooth, W-LAN, Broadband network.

◆ Lead Free Part Numbering

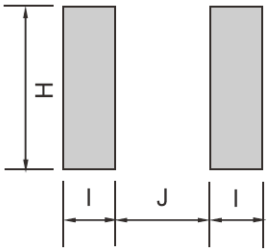
CMCW 1608 C R10 J S T
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Chip Size（mm）:Length X Width;
(3) Material Code;
(4) Inductance：0N1=0.1nH;4N7=4.7nH;
10N=10nH; R10=100nH;
1R0=1000nH;
(5) Inductance Tolerance：G=±2%;
J=±5%;
K=±10%;
(6) Company Code;
(7) Packaging：Tape Carrier Package.

◆ Dimensions Unit: mm



Land Pattern



Series	A	B	C	D	E	F	H	I	J
CMCW1005C	1.2 ±0.10	0.60±0.10	0.60±0.10	0.20±0.05	0.50±0.05	0.20±0.05	0.64±0.05	0.40±0.05	0.60±0.05
CMCW1608C	1.68±0.10	1.00±0.10	0.85±0.10	0.32±0.05	0.76±0.05	0.33±0.05	1.02±0.05	0.60±0.05	0.60±0.05
CMCW2012C	2.20±0.10	1.62±0.10	1.45±0.10	0.48±0.05	1.22±0.05	0.45±0.05	1.72±0.05	1.02±0.05	0.76±0.05
CMCW2520C	2.65±0.10	2.60±0.10	2.00±0.10	0.50±0.05	2.05±0.05	0.45±0.05	2.50±0.05	1.02±0.05	1.27±0.05
CMCW3216C	3.46±0.10	2.06±0.10	1.42±0.10	0.50±0.05	1.55±0.05	0.45±0.05	1.88±0.05	1.02±0.05	1.78±0.05
CMCW3225C	3.46±0.10	2.75±0.10	2.60±0.10	0.50±0.05	2.05±0.05	0.45±0.05	2.97±0.05	1.02±0.05	1.78±0.05
CMCW4532C	4.75±0.10	3.71±0.10	3.33±0.10	1.72±0.05	2.85±0.05	0.53±0.05	3.00±0.05	1.14±0.05	3.00±0.05

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW1005C Series						
CMCW1005C30NJST	30	25	250	0.380	320	3300
CMCW1005C36NJST	36	25	250	0.600	250	3100
CMCW1005C38NJST	38	25	250	0.600	250	3000
CMCW1005C39NJST	39	25	250	0.600	250	3000
CMCW1005C43NJST	43	25	250	0.680	240	3000
CMCW1005C47NJST	47	25	250	0.950	200	2900
CMCW1005C51NJST	51	25	250	0.950	200	2850
CMCW1005C56NJST	56	25	250	1.050	190	2800
CMCW1005C62NJST	62	25	250	1.050	190	2600
CMCW1005C68NJST	68	25	250	1.350	170	2500
CMCW1005C75NJST	75	24	250	1.750	140	2400
CMCW1005C82NJST	82	25	250	1.900	140	2300
CMCW1005C91NJST	91	25	250	1.950	140	2100
CMCW1005CR10JST	100	24	250	2.060	130	1500
CMCW1005CR11JST	110	25	250	2.380	120	1200
CMCW1005CR12JST	120	25	250	2.660	110	1000
CMCW1608C Series						
CMCW1608C1N6JST	1.6	18	250	0.035	1150	>6000
CMCW1608C1N7JST	1.7	16	250	0.043	1000	>6000
CMCW1608C1N8JST	1.8	18	250	0.043	1000	>6000
CMCW1608C2N2JST	2.2	13	250	0.150	700	>6000
CMCW1608C2N7JST	2.7	25	250	0.043	1000	>6000
CMCW1608C3N3JST	3.3	25	250	0.059	850	>6000
CMCW1608C3N6JST	3.6	25	250	0.059	850	>6000
CMCW1608C3N9JST	3.9	25	250	0.059	850	>6000
CMCW1608C4N3JST	4.3	25	250	0.059	850	>6000
CMCW1608C4N7JST	4.7	25	250	0.065	800	>6000
CMCW1608C5N1JST	5.1	21	250	0.130	600	>6000
CMCW1608C6N2JST	6.2	29	250	0.095	700	>6000
CMCW1608C6N8JST	6.8	29	250	0.095	700	>6000
CMCW1608C7N5JST	7.5	33	250	0.095	700	>6000
CMCW1608C8N2JST	8.2	31	250	0.095	700	>6000

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW1608C Series						
CMCW1608C8N7JST	8.7	31	250	0.095	700	>6000
CMCW1608C9N1JST	9.1	30	250	0.120	620	6000
CMCW1608C9N5JST	9.5	26	250	0.160	540	6000
CMCW1608C10NJST	10	30	250	0.130	600	6000
CMCW1608C11NJST	11	35	250	0.130	600	6000
CMCW1608C12NJST	12	35	250	0.130	600	6000
CMCW1608C13NJST	13	35	250	0.130	600	6000
CMCW1608C15NJST	15	37	250	0.150	550	6000
CMCW1608C16NJST	16	37	250	0.150	550	5500
CMCW1608C18NJST	18	37	250	0.150	550	5500
CMCW1608C20NJST	20	37	250	0.150	550	4900
CMCW1608C22NJST	22	38	250	0.190	490	4600
CMCW1608C23NJST	23	40	250	0.190	490	3800
CMCW1608C24NJST	24	40	250	0.190	490	3800
CMCW1608C25NJST	25	40	250	0.190	490	3700
CMCW1608C27NJST	27	38	250	0.190	490	3700
CMCW1608C30NJST	30	38	250	0.210	470	3300
CMCW1608C33NJST	33	40	250	0.210	470	3200
CMCW1608C36NJST	36	40	250	0.220	460	2900
CMCW1608C39NJST	39	40	250	0.220	460	2800
CMCW1608C43NJST	43	40	250	0.270	400	2700
CMCW1608C47NJST	47	36	200	0.270	400	2600
CMCW1608C51NJST	51	35	200	0.300	390	2400
CMCW1608C56NJST	56	38	200	0.350	360	2400
CMCW1608C62NJST	62	36	200	0.380	350	2300
CMCW1608C68NJST	68	36	200	0.380	350	2200
CMCW1608C72NJST	72	34	150	0.430	320	2100
CMCW1608C82NJST	82	34	150	0.500	300	2000
CMCW1608C91NJST	91	34	150	0.520	300	1900
CMCW1608CR10JST	100	31	150	0.660	260	1800
CMCW1608CR11JST	110	32	150	0.730	250	1700
CMCW1608CR12JST	120	32	150	0.750	240	1600

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW1608C Series						
CMCW1608CR15JST	150	32	150	1.12	200	1400
CMCW1608CR16JST	160	32	150	1.12	200	1400
CMCW1608CR18JST	180	25	100	1.38	180	1300
CMCW1608CR20JST	200	25	100	1.90	150	1250
CMCW1608CR22JST	220	25	100	2.10	140	1200
CMCW1608CR24JST	240	25	100	2.75	120	1100
CMCW1608CR25JST	250	25	100	2.80	120	1100
CMCW1608CR27JST	270	26	100	3.00	120	960
CMCW1608CR33JST	330	26	100	4.20	100	800
CMCW1608CR39JST	390	27	100	4.50	100	800
CMCW1608CR42JST	420	27	100	5.40	90	800
CMCW1608CR47JST	470	27	100	5.70	90	700
CMCW1608CR56JST	560	27	100	8.10	70	650
CMCW2012C Series						
CMCW2012C2N2JST	2.2	40	250/1500	0.10	600	>6000
CMCW2012C3N3JST	3.3	25	250/1500	0.20	600	>6000
CMCW2012C6N8JST	6.8	40	250/1000	0.11	600	5000
CMCW2012C8N2JST	8.2	40	250/1000	0.19	600	4600
CMCW2012C12NJST	12	40	250/500	0.15	600	4000
CMCW2012C15NJST	15	40	250/500	0.17	600	2900
CMCW2012C18NJST	18	50	250/500	0.20	600	3300
CMCW2012C22NJST	22	55	250/500	0.22	500	2000
CMCW2012C27NJST	27	55	250/500	0.25	500	2500
CMCW2012C33NJST	33	60	250/500	0.27	500	2000
CMCW2012C39NJST	39	60	250/500	0.29	500	2000
CMCW2012C47NJST	47	50	200/500	0.31	500	1600
CMCW2012C56NJST	56	55	200/500	0.32	500	1550
CMCW2012C68NJST	68	55	200/500	0.38	500	1450
CMCW2012C82NJST	82	50	150/500	0.42	400	1300
CMCW2012CR10JST	100	50	150/500	0.46	400	1200
CMCW2012CR12JST	120	50	150/250	0.51	400	1100
CMCW2012CR15JST	150	50	100/250	0.56	400	920

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW2012C Series						
CMCW2012CR18JST	180	50	100/250	0.64	400	870
CMCW2012CR22JST	220	45	100/250	1.10	400	850
CMCW2012CR27JST	270	38	100/250	1.00	350	650
CMCW2012CR33JST	330	40	100/250	1.40	310	600
CMCW2012CR39JST	390	35	100/250	1.50	290	560
CMCW2012CR47JST	470	33	50/100	1.72	250	375
CMCW2012CR56JST	560	23	25/50	1.90	230	320
CMCW2012CR62JST	620	23	25/50	1.95	200	280
CMCW2012CR68JST	680	23	25/50	2.05	190	270
CMCW2012CR75JST	750	23	25/50	2.10	180	240
CMCW2012CR82JST	820	23	25/50	2.30	180	250
CMCW2012CR91JST	910	23	25/50	2.40	180	230
CMCW2012C1R0JST	1000	22	25/50	2.50	170	200
CMCW2012C1R2JST	1200	22	25/50	2.55	170	180
CMCW2012C1R5JST	1500	21	25/50	2.80	160	170
CMCW2012C1R8JST	1800	21	25/50	3.20	150	160
CMCW2012C2R2JST	2200	21	25/50	3.80	150	150
CMCW2520C Series						
CMCW2520C4N7JST	4.7	50	50/1500	0.11	1000	>6000
CMCW2520C10NJST	10	50	50/500	0.08	1000	4100
CMCW2520C12NJST	12	50	50/500	0.09	1000	3300
CMCW2520C15NJST	15	50	50/500	0.13	1000	2500
CMCW2520C18NJST	18	50	50/350	0.11	1000	2500
CMCW2520C22NJST	22	55	50/350	0.12	1000	2400
CMCW2520C27NJST	27	55	50/350	0.13	1000	1600
CMCW2520C33NJST	33	60	50/350	0.14	1000	1600
CMCW2520C39NJST	39	50	50/350	0.15	1000	1500
CMCW2520C47NJST	47	65	50/350	0.16	1000	1500
CMCW2520C56NJST	56	50	50/350	0.18	1000	1300
CMCW2520C68NJST	68	65	50/350	0.21	1000	1200
CMCW2520C82NJST	82	60	50/350	0.22	1000	800
CMCW2520CR10JST	100	60	25/350	0.56	650	1000

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW2520C Series						
CMCW2520CR12JST	120	60	25/350	0.63	650	950
CMCW2520CR15JST	150	50	25/100	0.62	580	800
CMCW2520CR18JST	180	50	25/100	0.70	620	750
CMCW2520CR22JST	220	50	25/100	0.80	500	630
CMCW2520CR27JST	270	50	25/100	0.91	500	600
CMCW2520CR33JST	330	50	25/100	1.05	450	530
CMCW2520CR39JST	390	50	25/100	1.12	470	480
CMCW2520CR47JST	470	50	25/100	1.19	470	450
CMCW2520CR56JST	560	50	25/100	1.33	400	390
CMCW2520CR62JST	620	45	25/100	1.40	300	375
CMCW2520CR68JST	680	45	25/100	1.47	400	360
CMCW2520CR75JST	750	45	25/100	1.54	360	360
CMCW2520CR82JST	820	45	25/100	1.61	400	330
CMCW2520CR91JST	910	35	25/50	1.68	380	295
CMCW2520C1R0JST	1000	35	25/50	1.80	370	270
CMCW2520C1R2JST	1200	35	7.9/50	2.00	310	200
CMCW2520C1R5JST	1500	28	7.9/50	2.30	330	150
CMCW2520C1R8JST	1800	28	7.9/50	2.60	300	120
CMCW2520C2R2JST	2200	28	7.9/50	2.80	280	100
CMCW3216C Series						
CMCW3216C3N3JST	3.3	20	100/300	0.07	1000	6200
CMCW3216C6N8JST	6.8	30	100/300	0.07	1000	5500
CMCW3216C10NJST	10	40	100/300	0.09	1000	4000
CMCW3216C12NJST	12	40	100/300	0.09	1000	3200
CMCW3216C15NJST	15	40	100/300	0.12	1000	3200
CMCW3216C18NJST	18	45	100/300	0.12	1000	2800
CMCW3216C22NJST	22	50	100/300	0.12	1000	2200
CMCW3216C27NJST	27	50	100/300	0.12	1000	1800
CMCW3216C33NJST	33	50	100/300	0.12	1000	1800
CMCW3216C39NJST	39	50	100/300	0.12	1000	1800
CMCW3216C47NJST	47	50	100/300	0.13	1000	1500
CMCW3216C56NJST	56	55	100/300	0.14	1000	1450

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW3216C Series						
CMCW3216C68NJST	68	55	100/300	0.26	900	1200
CMCW3216C82NJST	82	55	100/300	0.21	900	1200
CMCW3216CR10JST	100	55	100/300	0.30	850	1100
CMCW3216CR12JST	120	60	100/300	0.30	800	1100
CMCW3216CR15JST	150	55	100/300	0.31	750	950
CMCW3216CR18JST	180	60	50/300	0.43	700	900
CMCW3216CR22JST	220	60	50/300	0.56	670	760
CMCW3216CR27JST	270	50	50/300	0.56	630	730
CMCW3216CR33JST	330	45	50/150	0.70	590	650
CMCW3216CR39JST	390	45	50/150	0.80	530	600
CMCW3216CR47JST	470	45	50/150	1.30	490	550
CMCW3216CR56JST	560	45	35/150	1.34	460	470
CMCW3216CR68JST	680	45	35/150	1.58	430	450
CMCW3216CR82JST	820	45	35/150	1.82	400	420
CMCW3216C1R0JST	1000	45	35/150	2.80	320	400
CMCW3216C1R2JST	1200	45	35/150	3.20	300	380
CMCW3225C Series						
CMCW3225C3N9JST	3.9	30	100/300	0.05	1000	6000
CMCW3225C4N7JST	4.7	30	100/300	0.07	1000	5800
CMCW3225C8N2JST	8.2	30	100/300	0.07	1000	5500
CMCW3225C10NJST	10	40	100/300	0.08	1000	4000
CMCW3225C12NJST	12	40	100/300	0.08	1000	3200
CMCW3225C15NJST	15	40	100/300	0.10	1000	3200
CMCW3225C18NJST	18	50	100/300	0.10	1000	2800
CMCW3225C22NJST	22	50	100/300	0.10	1000	2200
CMCW3225C27NJST	27	50	100/300	0.11	1000	1800
CMCW3225C33NJST	33	55	100/300	0.11	1000	1800
CMCW3225C39NJST	39	55	100/300	0.12	1000	1500
CMCW3225C43NJST	43	55	100/300	0.12	1000	1500
CMCW3225C47NJST	47	55	100/300	0.13	1000	1500
CMCW3225C56NJST	56	55	100/300	0.14	1000	1450
CMCW3225C68NJST	68	55	100/300	0.15	900	1200

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW3225C Series						
CMCW3225C82NJST	82	55	100/300	0.20	900	1000
CMCW3225CR10JST	100	55	100/300	0.20	850	900
CMCW3225CR12JST	120	60	100/300	0.25	800	800
CMCW3225CR15JST	150	60	100/300	0.25	750	700
CMCW3225CR18JST	180	60	50/300	0.30	700	650
CMCW3225CR22JST	220	60	50/300	0.40	770	650
CMCW3225CR27JST	270	40	50/300	0.40	630	580
CMCW3225CR33JST	330	45	50/150	0.58	590	580
CMCW3225CR39JST	390	45	50/150	0.58	530	510
CMCW3225CR47JST	470	45	50/150	0.80	490	480
CMCW3225CR56JST	560	45	35/150	1.10	460	420
CMCW3225CR68JST	680	45	35/150	1.20	430	400
CMCW3225CR82JST	820	45	35/150	1.82	400	370
CMCW3225C1R0JST	1000	45	35/150	1.85	320	340
CMCW3225C1R2JST	1200	35	35/150	1.87	300	220
CMCW3225C1R5JST	1500	20	7.9/50	1.95	310	160
CMCW3225C1R8JST	1800	30	7.9/50	2.25	310	160
CMCW3225C2R2JST	2200	25	7.9/50	2.41	310	130
CMCW3225C3R0JST	3000	20	7.9/25	3.12	300	110
CMCW3225C3R9JST	3900	20	7.9/25	3.60	290	60
CMCW3225C4R7JST	4700	20	7.9/25	4.00	280	60
CMCW3225C5R6JST	5600	15	7.9/25	5.00	250	50
CMCW3225C6R8JST	6800	15	7.9	8.00	230	40
CMCW3225C8R6JST	8600	15	7.9	9.00	200	40
CMCW4532C Series						
CMCW4532C1R0JST	1	60	7.9/50	1.20	480	250
CMCW4532C1R2JST	1.2	60	7.9/50	1.20	480	230
CMCW4532C1R5JST	1.5	60	7.9/50	1.60	430	210
CMCW4532C1R8JST	1.8	55	7.9/50	2.00	380	150
CMCW4532C2R2JST	2.2	55	7.9/50	2.20	340	150
CMCW4532C2R7JST	2.7	55	7.9/50	3.20	300	150
CMCW4532C3R3JST	3.3	55	7.9/50	3.80	270	130

Wire Wound Chip Ceramic Inductor
CMCW-C Series

◆ SPECFICATIONS

Part Number	Inductance	Min. Quality Factor	L/Q Test Condition	Max. DC Resistance	Max. Rated Current	Min. Self-resonant Frequency
	nH	Q	MHZ	Ω	mA	MHZ
CMCW4532C Series						
CMCW4532C3R9JST	3.9	55	7.9/50	5.00	240	120
CMCW4532C4R7JST	4.7	55	7.9/50	5.40	230	90
CMCW4532C5R6JST	5.6	45	7.9/50	5.70	220	90
CMCW4532C6R8JST	6.8	30	7.9/50	6.60	210	80
CMCW4532C8R2JST	8.2	20	7.9/50	7.00	200	70
CMCW4532C100JST	10	15	7.9/50	7.70	190	60
CMCW4532C120JST	12	30	2.5/10	8.70	180	50
CMCW4532C150JST	15	30	2.5/10	9.60	170	30
CMCW4532C180JST	18	25	2.5/10	10.50	160	30
CMCW4532C220JST	22	25	2.5/10	11.50	155	20
CMCW4532C270JST	27	25	2.5/10	12.50	150	20
CMCW4532C330JST	33	10	2.5/10	13.50	145	10

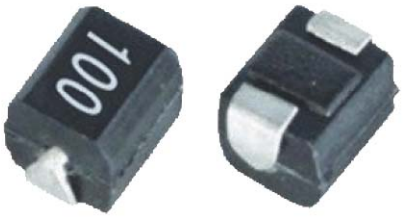
◆ Package

Size EIA (EIA)	1005 (0402)	1608 (0603)	2012 (0805)	2520 (1008)	3216 (1206)	3225 (1210)
Standard Packing Quantity (pcs / reel)	10,000	4,000	3,000	2,000	2,000	2,000
	4532 (1812)					
	2,000					

Wire Wound SMD Chip Inductor
CMCW-M Series

◆Features

1、Lead-free materials is used for the plating on the terminals.
2、The product uses metal terminals,which realize excellent connection reliability.
3、High resistance to heat,humidity, mechanical shocks and presser.Accurate dimensions for automatically surface mounted.
4、The product has good heat durability that withstands lead-free compatible reflow soldering conditions.



◆Application

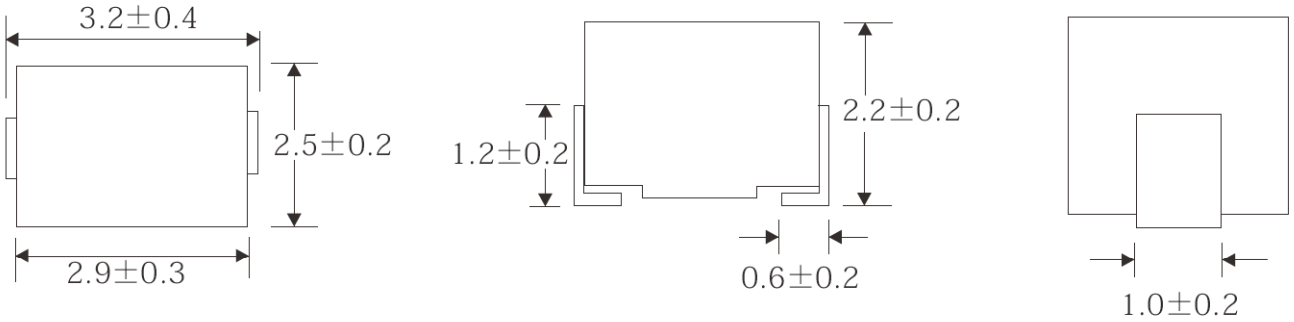
CMCW-M serials high reliable wire would chip inductors for communication, equipment , instrument , video & audio have been developen in response to the trend toward higher density mounting of parts in electric circuits.

◆Lead Free Part Numbering

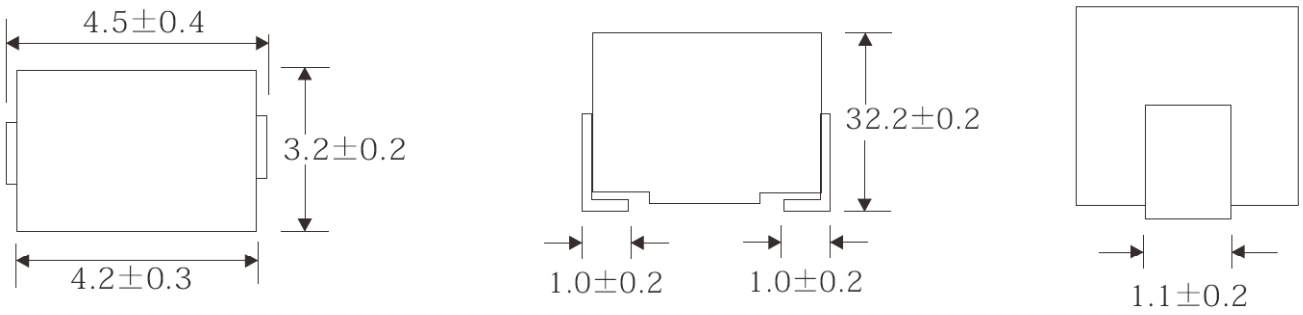
CMCW 3225 M 4R7 K T T
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Dimension：L X W;
(3) Material Code;
(4) Inductance：2R2=2.2μH;100=10μH;
101=100μH;
(5) Inductance Tolerance：J=±5%, K=±10%,
M=±20%;
(6) Company Code;
(7) Packaging：packed in embossed carrier tape.

◆ Shape and dimensions (Unit：mm)



CMCW3225M Series



CMCW4532M Series

Wire Wound SMD Chip Inductor
CMCW-M Series

◆ SPECFICATIONS

Part Number	Inductance uH	Inductance tolerance	Q min.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω) Max.	Rated current. (mA)max.
CMCW3225M Series							
CMCW3225MR10(X)TT	0.10	±20,±10%	28	100	700	0.44	450
CMCW3225MR12(X)TT	0.12	±20,±10%	30	25.2	500	0.22	450
CMCW3225MR15(X)TT	0.15	±20,±10%	30	25.2	450	0.25	450
CMCW3225MR18(X)TT	0.18	±20,±10%	30	25.2	400	0.28	450
CMCW3225MR22(X)TT	0.22	±20,±10%	30	25.2	350	0.32	450
CMCW3225MR27(X)TT	0.27	±20,±10%	30	25.2	320	0.36	450
CMCW3225MR33(X)TT	0.33	±20,±10%	30	25.2	300	0.4	450
CMCW3225MR39(X)TT	0.39	±20,±10%	30	25.2	250	0.45	450
CMCW3225MR47(X)TT	0.47	±20,±10%	30	25.2	220	0.5	450
CMCW3225MR56(X)TT	0.56	±20,±10%	30	25.2	180	0.55	450
CMCW3225MR68(X)TT	0.68	±20,±10%	30	25.2	160	0.6	450
CMCW3225MR82(X)TT	0.82	±20,±10%	30	25.2	140	0.65	450
CMCW3225M1R0(X)TT	1.00	±10,±5%	30	7.96	120	0.7	400
CMCW3225M1R2(X)TT	1.2	±10,±5%	30	7.96	100	0.75	390
CMCW3225M1R5(X)TT	1.5	±10,±5%	30	7.96	85	0.85	370
CMCW3225M1R8(X)TT	1.8	±10,±5%	30	7.96	80	0.9	350
CMCW3225M2R2(X)TT	2.2	±10,±5%	30	7.96	75	1	320
CMCW3225M2R7(X)TT	2.7	±10,±5%	30	7.96	70	1.1	290
CMCW3225M3R3(X)TT	3.3	±10,±5%	30	7.96	60	1.2	260
CMCW3225M3R9(X)TT	3.9	±10,±5%	30	7.96	55	1.3	250
CMCW3225M4R7(X)TT	4.7	±10,±5%	30	7.96	50	1.5	220
CMCW3225M5R6(X)TT	5.6	±10,±5%	30	7.96	45	1.6	200
CMCW3225M6R8(X)TT	6.8	±10,±5%	30	7.96	40	1.8	180
CMCW3225M8R2(X)TT	8.2	±10,±5%	30	7.96	35	2	170
CMCW3225M100(X)TT	10	±10,±5%	30	2.52	30	2.1	150
CMCW3225M120(X)TT	12	±10,±5%	30	2.52	20	2.5	140
CMCW3225M150(X)TT	15	±10,±5%	30	2.52	20	2.8	130
CMCW3225M180(X)TT	18	±10,±5%	30	2.52	20	3.3	120
CMCW3225M220(X)TT	22	±10,±5%	30	2.52	20	3.7	110
CMCW3225M270(X)TT	27	±10,±5%	30	2.52	20	5	80
CMCW3225M330(X)TT	33	±10,±5%	30	2.52	17	5.6	70
CMCW3225M390(X)TT	39	±10,±5%	30	2.52	16	6.4	65

Wire Wound SMD Chip Inductor
CMCW-M Series

◆ **SPECFICATIONS**

Part Number	Inductance uH	Inductance tolerance	Q min.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω) Max.	Rated current. (mA)max.
CMCW3225M Series							
CMCW3225M470(X)TT	47	±10,±5%	30	2.52	15	7	60
CMCW3225M560(X)TT	56	±10,±5%	30	2.52	13	8	55
CMCW3225M680(X)TT	68	±10,±5%	30	2.52	12	9	50
CMCW3225M820(X)TT	82	±10,±5%	30	2.52	11	10	45
CMCW3225M101(X)TT	100	±10,±5%	20	0.796	10	10	40
CMCW3225M121(X)TT	120	±10,±5%	20	0.796	10	11	70
CMCW3225M151(X)TT	150	±10,±5%	20	0.796	8	15	65
CMCW3225M181(X)TT	180	±10,±5%	20	0.796	7	17	60
CMCW3225M221(X)TT	220	±10,±5%	20	0.796	7	21	50
CMCW4532M Series							
CMCW4532MR10(X)TT	0.10	±5%,±10%	35	25.2	300	0.18	800
CMCW4532MR12(X)TT	0.12	±5%,±10%	35	25.2	280	0.2	770
CMCW4532MR15(X)TT	0.15	±5%,±10%	35	25.2	250	0.22	730
CMCW4532MR18(X)TT	0.18	±5%,±10%	35	25.2	220	0.24	700
CMCW4532MR22(X)TT	0.22	±5%,±10%	40	25.2	200	0.25	665
CMCW4532MR27(X)TT	0.27	±5%,±10%	40	25.2	180	0.26	635
CMCW4532MR33(X)TT	0.33	±5%,±10%	40	25.2	165	0.28	605
CMCW4532MR39(X)TT	0.39	±5%,±10%	40	25.2	150	0.3	575
CMCW4532MR47(X)TT	0.47	±5%,±10%	40	25.2	145	0.32	545
CMCW4532MR56(X)TT	0.56	±5%,±10%	40	25.2	140	0.36	520
CMCW4532MR68(X)TT	0.68	±5%,±10%	40	25.2	135	0.4	500
CMCW4532MR82(X)TT	0.82	±5%,±10%	40	25.2	130	0.45	475
CMCW4532M1R0(X)TT	1.00	±5%,±10%	50	7.96	100	0.5	450
CMCW4532M1R2(X)TT	1.2	±5%,±10%	50	7.96	80	0.55	430
CMCW4532M1R5(X)TT	1.5	±5%,±10%	50	7.96	70	0.6	410
CMCW4532M1R8(X)TT	1.8	±5%,±10%	50	7.96	60	0.65	390
CMCW4532M2R2(X)TT	2.2	±5%,±10%	50	7.96	55	0.7	380
CMCW4532M2R7(X)TT	2.7	±5%,±10%	50	7.96	50	0.75	370
CMCW4532M3R3(X)TT	3.3	±5%,±10%	50	7.96	45	0.8	355
CMCW4532M3R9(X)TT	3.9	±5%,±10%	50	7.96	40	0.9	330
CMCW4532M4R7(X)TT	4.7	±5%,±10%	50	7.96	35	1	315
CMCW4532M5R6(X)TT	5.6	±5%,±10%	50	7.96	33	1.1	300

Wire Wound SMD Chip Inductor
CMCW-M Series

◆ SPECFICATIONS

Part Number	Inductance uH	Inductance tolerance	Q min.	Test frequency L,Q (MHz)	Self-resonant frequency (MHz)min.	DC resistance (Ω) Max.	Rated current. (mA)max.
CMCW4532M Series							
CMCW4532M6R8(X)TT	6.8	±5%,±10%	50	7.96	27	1.2	285
CMCW4532M8R2(X)TT	8.2	±5%,±10%	50	7.96	25	1.4	270
CMCW4532M100(X)TT	10	±5%,±10%	50	2.52	20	1.6	250
CMCW4532M120(X)TT	12	±5%,±10%	50	2.52	18	2	225
CMCW4532M150(X)TT	15	±5%,±10%	50	2.52	17	2.5	200
CMCW4532M180(X)TT	18	±5%,±10%	50	2.52	15	2.8	190
CMCW4532M220(X)TT	22	±5%,±10%	50	2.52	13	3.2	180
CMCW4532M270(X)TT	27	±5%,±10%	50	2.52	12	3.6	170
CMCW4532M330(X)TT	33	±5%,±10%	50	2.52	11	4	160
CMCW4532M390(X)TT	39	±5%,±10%	50	2.52	10	4.5	150
CMCW4532M470(X)TT	47	±5%,±10%	50	2.52	10	5	140
CMCW4532M560(X)TT	56	±5%,±10%	50	2.52	9	5.5	135
CMCW4532M680(X)TT	68	±5%,±10%	50	2.52	9	6	130
CMCW4532M820(X)TT	82	±5%,±10%	50	2.52	8	7	120
CMCW4532M101(X)TT	100	±5%,±10%	40	0.796	8	8	110
CMCW4532M121(X)TT	120	±5%,±10%	40	0.796	6	8	110
CMCW4532M151(X)TT	150	±5%,±10%	40	0.796	5	9	105
CMCW4532M181(X)TT	180	±5%,±10%	40	0.796	5	9.5	102
CMCW4532M221(X)TT	220	±5%,±10%	40	0.796	4	10	100
CMCW4532M271(X)TT	270	±5%,±10%	40	0.796	4	12	92
CMCW4532M331(X)TT	330	±5%,±10%	40	0.796	3.5	14	85
CMCW4532M391(X)TT	390	±5%,±10%	40	0.796	3	18	80
CMCW4532M471(X)TT	470	±5%,±10%	40	0.796	3	26	62
CMCW4532M561(X)TT	560	±5%,±10%	30	0.796	3	30	50
CMCW4532M681(X)TT	680	±5%,±10%	30	0.796	3	30	50
CMCW4532M821(X)TT	820	±5%,±10%	30	0.796	2.5	35	30
CMCW4532M102(X)TT	1000	±5%,±10%	20	0.252	2.5	40	30

◆ Package

Size EIA (EIA)	3225 (1210)	4532 (1812)
Standard Packing Quantity (pcs / reel)	2,000	2,000

Surface Mount Polymeric ESD Suppressors
CMPE-S Series

◆ Features

1、Protection against high ESD voltage and current;
2、Compact size for EIA 0402 and 0603;
3、Extremely quick response time (<1ns) ;
4、Extremely low capacitance(≤0.05pF);
5、Meet IEC 61000-4-2 standard Level 4 for ESD 15kV (Air),8kV (Contact);
6、Extremely low leakage current;
7、Zero signal distortion;
8、Bi-directional;
9、ROHS Compliant.

◆ Lead Free Part Numbering

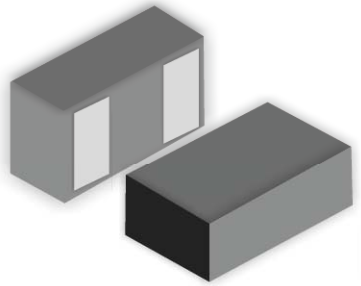
CMPE 0603 S 05 M S P
(1) (2) (3) (4) (5) (6) (7)

(1) Series Type;
(2) Chip Size（mm）:Length X Width;
(3) Material Code;
(4) Rated Voltage, VDC;
(5) Capacitance Tolerance：M=±20%,
N=±30%;
(6) Company Code;
(7) Packaging：
P – Embossed paper tape, 7" reel
E – Embossed plastic tape, 7" reel.

◆ Circuit Diagram



◆ Functional Block Diagram



◆ Applications

CMPE-S Series are applied to RF module, Antenna circuit, IEEE-1394,USB2.0/3.0, DVI, and HDMI, DisplayPort…etc. high speed signal interface.

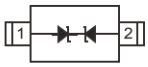
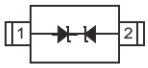
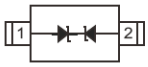
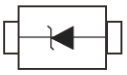
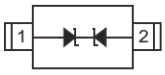
◆ Specifications

Part Number	Maximum Operating Voltage (VDC)	Leakage Current[2] (IL)	Capacitance[3], @1MHz(Cp)	Trigger Voltage (Vt)	Clamping Voltage[4] (Vc)	Minimum ESD Pulse Withstand
CMPE0402S05MSP	5	0.05μA	0.05pF	150V	30V	100
CMPE0402S09MSP	9	0.05μA	0.05pF	300V	20V	100
CMPE0402S12MSP	12	0.05μA	0.05pF	300V	20V	100
CMPE0402S24MSP	24	0.05μA	0.05pF	300V	35V	1000
CMPE0402S30MSP	30	0.05μA	0.05pF	300V	35V	1000
CMPE0603S05MSP	5	0.01μA	0.05pF	150V	30V	100
CMPE0603S09MSP	9	0.01μA	0.05pF	150V	30V	100
CMPE0603S12MSP	12	0.01μA	0.05pF	150V	30V	100
CMPE0603S24MSP	24	0.01μA	0.05pF	300V	35V	500

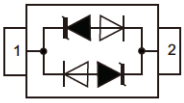
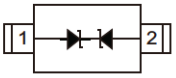
Transient Voltage Suppressor

Part Number	Package	Capacitance	Reverse Stand-off Voltage	Reverse Beakdown Voltage	Channel	ESD Contact/Air	Circuit Diagram	Pin Configuration	Remark
		(pF)	V_{RWM}	V_B		KV(Max.)			
CMTLCP0201CR35BFE	CSP0201	0.35pF (Typ.)	5.0V (Max.)	8.8V (Typ.)	1	±15kV/±8kV			
CMTLDF02CR25AFE	DFN1006-2	0.25pF (Typ.)	5.0V (Max.)	6.0V (Typ.)	1	±15kV/±8kV			
CMTLDF02CR35AFE	DFN1006-2	0.35pF (Typ.)	5.0V (Max.)	8.8V (Typ.)	1	±15kV/±8kV			
CMTLDF02CR50BLE	DFN1006-2	0.5pF (Typ.)	5.0V (Max.)	6.0V (Min.)	1	±15kV/±10kV			
CMTLDF02CR50ALE	DFN1006-2	0.5pF (Typ.)	5.0V (Max.)	6.0V (Min.)	1	±15kV/±10kV			
CMTLDF02C1R8AFE	DFN1006-2	1.8pF (Typ.)	5.0V (Max.)	8.8V (Typ.)	1	±15kV/±8kV			
CMTLDF02C6R0BLE	DFN1006-2	6.0pF (Typ.)	5.0V (Max.)	6.1V (Min.)	1	±15kV/±8kV			
CMTLDF02C120BFE	DFN1006-2	12pF (Typ.)	5.0V (Max.)	6.0V (Typ.)	1	±15kV/±8kV			
CMTLDF02C180BLE	DFN1006-2	18pF (Typ.)	5.0V (Max.)	6.1V (Min.)	1	±15kV/±8kV			
CMTLDF02C350BLE	DFN1006-2	35pF (Typ.)	5.0V (Max.)	7.0V (Min.)	1	±15kV/±8kV			
CMTLSD923C120BFE	SOD923-2	12pF (Typ.)	5.0V (Max.)	6.0V (Typ.)	1	±15kV/±8kV			

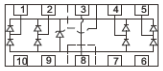
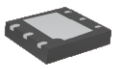
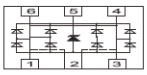
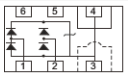
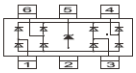
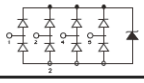
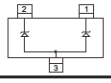
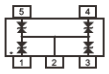
Transient Voltage Suppressor

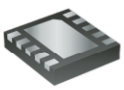
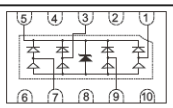
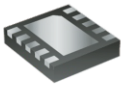
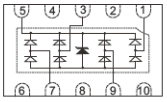
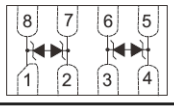
Part Number	Package	Capacitance	Reverse Stand-off Voltage	Reverse Beakdown Voltage	Channel	ESD Contact/Air	Circuit Diagram	Pin Configuration	Remark
		(pF)	V_{RWM}	V_B		KV(Max.)			
CMTLS523CR50BFE	SOD-523	0.5pF (Typ.)	5.0V (Max.)	6.0V (Min.)	1	±15kV/±8kV			
CMTLS523C6R0AFE	SOD-523	6.0pF (Typ.)	5.0V (Max.)	6.1V (Min.)	1	±15kV/±8kV			
CMTLS523C150ALE	SOD-523	15pF (Typ.)	5.0V (Max.)	6.1V (Min.)	1	±15kV/±8kV			
CMTLSD523ZV2.5	SOD-523	145pF (Max.)	2.5V (Max.)	5.0V (Min.)	1	±30kV/±30kV			
CMTLSD523ZV3.3	SOD-523	105pF (Max.)	3.3V (Max.)	5.0V (Min.)	1	±30kV/±30kV			
CMTLSD523ZV5.0	SOD-523	80pF (Max.)	5.0V (Max.)	6.2V (Min.)	1	±30kV/±30kV			
CMTLSD523ZV6.0	SOD-523	70pF (Max.)	6.0V (Max.)	6.2V (Min.)	1	±30kV/±30kV			
CMTLSD523ZV7.0	SOD-523	65pF (Max.)	7.0V (Max.)	7.5V (Min.)	1	±30kV/±30kV			
CMTLSD523ZV12	SOD-523	45pF (Max.)	12V (Max.)	14.1V (Min.)	1	±30kV/±30kV			
CMTLSD523ZV15	SOD-523	28pF (Max.)	15V (Max.)	16.0V (Min.)	1	±30kV/±30kV			
CMTLSD323Z100AFE	SOD-323	10pF (Typ.)	5.0V (Max.)	7.8V (Min.)	1	±15kV/±8kV			

Transient Voltage Suppressor

Part Number	Package	Capacitance (pF)	Reverse Stand-off Voltage V_{RWM}	Reverse Beakdown Voltage V_B	Channel	ESD Contact/Air KV(Max.)	Circuit Diagram	Pin Configuration	Remark
CMTLSD323CV03CR80AFE	SOD-323	0.8pF (Typ.)	3.0V (Max.)	4.0V (Min.)	1	±15kV/±8kV			
CMTLSD323CV05CR80AFE			5.0V (Max.)	6.0V (Min.)					
CMTLSD323CV08CR80AFE			8.0V (Max.)	8.5V (Min.)					
CMTLSD323CV12CR80AFE			12V (Max.)	13.3V (Min.)					
CMTLSD323CV15CR80AFE			15V (Max.)	16.7V (Min.)					
CMTLSD323CV24CR80AFE			24V (Max.)	26.7V (Min.)					
CMTLSD323S03C351BFE	SOD-323	350pF (Typ.)	3.3V (Max.)	6.5V (Max.)	1	±15kV/±8kV			
CMTLSD323S05C151BFE		150pF (Typ.)	5.0V (Max.)	9.8V (Max.)					
CMTLSD323S08C101BFE		100pF (Typ.)	8.0V (Max.)	13.4V (Max.)					
CMTLSD323S12C650BFE		65pF (Typ.)	12V (Max.)	19V (Max.)					
CMTLSD323S15C550BFE		55pF (Typ.)	15V (Max.)	24V (Max.)					
CMTLSD323S18C470BFE		47pF (Typ.)	18V (Max.)	29V (Max.)					
CMTLSD323S24C350BFE		35pF (Typ.)	24V (Max.)	43V (Max.)					
CMTLSD323S36C250BFE		25pF (Typ.)	36V (Max.)	60V (Max.)					

Transient Voltage Suppressor

Part Number	Package	Capacitance (pF)	Reverse Stand-off Voltage V_{RWM}	Reverse Beakdown Voltage V_B	Channel	ESD Contact/Air KV(Max.)	Circuit Diagram	Pin Configuration	Remark
CMTLDF10CR50DLE	DFN-10	0.5pF (Typ.)	5.0V (Max.)	6.0V (Min.)	4	±15kV/±8kV			
CMTLDF06CR30DLE	DFN-6L	0.3pF (Typ.)	5.0V (Max.)	8.0V (Typ.)	4	±15kV/±8kV			
CMTLDF1610V05R35BLE	DFN1610	0.35pF (Typ.)	5.0V (Max.)	8.0V (Typ.)	2	±15kV/±8kV			
CMTLST23C1R0DLE	SOT-23-6L	0.9pF (Max.)	5.0V (Max.)	6.0V (Min.)	4	±17kV/±12kV			
CMTL2010CR15DSE	DFN2010	0.15pF (Max.)	5.0V (Max.)	7.2V (Min.)	4	±15kV/±8kV			
CMTST143CR90BFE	SOT-143	0.9pF (Typ.)	5.0V (Max.)	6.0V (Min.)	2	±15kV/±8kV			
CMTLST23C1R0BFE	SOT-23-3L	1.0pF (Typ.)	5.0V (Max.)	6.0V (Min.)	2	±15kV/±8kV			
CMTLST23CR80BFE	SOT-23-3L	0.8pF (Typ.)	5.0V (Max.)	8.0V (Tye.)	2	±15kV/±8kV			
CMTLST23C200DSE	SOT-23-5	20pF (Typ.)	5.0V (Max.)	6.0V (Tye.)	4	±15kV/±8kV			

Part Number	Package	Capacitance (pF)	Reverse Stand-off Voltage V_{RWM}	Reverse Beakdown Voltage V_B	Channel	ESD Contact/Air KV(Max.)	Circuit Diagram	Pin Configuration	Remark
Low Capacitance ESD/Surge Protection									
CMESDF10V2R5C3R8DFE	DFN2.6×2.6-10L	3.8pF (Typ.)	2.5V (Max.)	4.5V (Tye.)	4	±15kV/±8kV			
CMESDF10V3R3C3R8DFE	DFN2.6×2.6-10L	3.8pF (Typ.)	3.3V (Max.)	5.5V (Tye.)	4	±15kV/±8kV			
CMESDF08V2R5C4R5DFE	DFN-8L	4.5pF (Typ.)	2.5V (Max.)	5.0V (Tye.)	4	±15kV/±8kV			

※CMSGDA41 Series（Surface Absorber / 突波吸收器）



Part Number 料号	DC Spartk-Over Voltage 标称直流击穿电压100V/s Vs(V)	AC Withstanding Voltage 耐交流能力	Nom Impulse Discharge Current 耐冲击电流 8X20μs(KA)	Nom Impulse Discharge Current 耐冲击电流8X20μs(A)	Insulation Resistance 绝缘电阻		Capacitance 电容值 C 1KHz<6V pF Max.
					Min. MΩ	DC V	
CMSGDA41V601M	600V±20%		1KA 1times	100A 300times	100	500	1
CMSGDA41V102M	1000±20%				100	500	1
CMSGDA41V152M	1500±20%				100	500	1
CMSGDA41V242M	2400±20%	1200V-3sec			100	500	1
CMSGDA41V302M	3000±20%	1500V-1min			100	500	1
CMSGDA41V362M	3600±20%	1800V-3sec	2KA 1times		100	500	1
CMSGDA41V452M	4500±20%	2000V-1min			100	500	1
CMSGDA41V622M	6200±20%	3000V-1min			100	500	1
应用：1、Power Supply；2、变频空调/Conversion air conditioner；3、TEL、FAX、MODEM							

※Surface mounted Gas Discharge Tube/贴片气体放电）



Part Number 料号	DC Spartk-Over Voltage 标称直流击穿电压100V/s Vs(V)	AC Withstanding Voltage 耐交流能力	Nom Impulse Discharge Current 耐冲击电流 8X20μs(KA)	Nom Impulse Discharge Current 耐冲击电流8X20μs(A)	Insulation Resistance 绝缘电阻		Capacitance 电容值 C 1KHz<6V pF Max.
					Min. MΩ	DC V	
CMSG2S2R Series							
CMSG2S2R90	90V±20%	500	2	0.5	100	50	1
CMSG2S2R140	140±20%	600	2	0.5	100	50	1
CMSG2S2R200	200±20%	600	2	0.5	100	100	1
CMSG2S2R300	300±20%	800	2	0.5	100	100	1
CMSG2S2R400	400±20%	900	2	0.5	100	100	1
CMSG2S2R500	500±20%	1000	2	0.5	100	100	1
CMSG2S2R Series							
CMSG3S2R75	75V±30%	500	4	1.5	100	50	1
CMSG3S2R90	90V±30%	600	4	1.5	100	50	1
CMSG3S2R140	140±20%	600	4	1.5	100	100	1
CMSG3S2R200	200±20%	600	4	1.5	100	100	1
CMSG3S2R230	230±20%	650	4	1.5	100	100	1
CMSG3S2R350	350±20%	800	4	1.5	100	100	1
CMSG3S2R400	400±20%	800	4	1.5	100	100	1
CMSG3S2R470	470±20%	900	4	1.5	100	100	1
CMSG3S2R600	600±20%	1000	4	1.5	100	100	1
应用：1. CATV modem,Telecom protection ; 2. Hub protection,Security systems ; 3. Data acquision and Audio systems ; 4. Set-Top Box protection							

※Bi-electrode Gas Discharge Tube/二极气体放电管



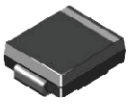
Part Number 料号	DC Spartk-Over Voltage 标称直流击穿电压100V/s Vs(V)	AC Withstanding Voltage 耐交流能力	Nom Impulse Discharge Current 耐冲击电流 8X20μs(KA)	Nom Impulse Discharge Current 耐冲击电流 8X20μs(A)	Insulation Resistance 绝缘电阻		Capacitance 电容值 C 1KHz<6V pF Max.
					Min. MΩ	DC V	
CMSG5A2R Series							
CMSG5A2R75	75V±30%	700	2.5	2.5	1000	50	1
CMSG5A2R90	900±30%	700	2.5	2.5	1000	50	1
CMSG5A2R150	150±30%	700	2.5	2.5	1000	50	1
CMSG5A2R230	230±20%	800	2.5	2.5	1000	100	1
CMSG5A2R350	350±20%	800	2.5	2.5	1000	100	1
CMSG5A2R470	470±20%	900	2.5	2.5	1000	100	1
CMSG5A2R600	600±20%	1200	2.5	2.5	1000	100	1
CMSG5A2R1000	1000±20%	1800	2.5	2.5	1000	100	1
CMSG8A2R Series							
CMSG8A2R75	75V±30%	700	5	5	1000	50	1
CMSG8A2R90	900±30%	700	5	5	1000	50	1
CMSG8A2R150	150±30%	700	5	5	1000	50	1
CMSG8A2R230	230±20%	800	5	5	1000	100	1
CMSG8A2R350	350±20%	800	5	5	1000	100	1
CMSG8A2R420	420±20%	900	5	5	1000	100	1
CMSG8A2R600	600±20%	1200	5	5	1000	250	1
CMSG8A2R1000	1000±20%	1800	5	2.5	1000	250	1

※Tri-electrode Gas Discharge Tube/三极气体放电管



Part Number 料号	DC Spartk-Over Voltage 标称直流击穿电压100V/s Vs(V)	AC Withstanding Voltage 耐交流能力	Nom Impulse Discharge Current 耐冲击电流 8X20μs(KA)	Nom Impulse Discharge Current 耐冲击电流 8X20μs(A)	Insulation Resistance 绝缘电阻		Capacitance 电容值 C 1KHz<6V pF Max.
					Min. MΩ	DC V	
CMSG5M3R75	75V±30%	700	2.5	2.5	1000	50	1
CMSG5M3R90	90±30%	700	2.5	2.5	1000	50	1
CMSG5M3R150	150±30%	700	2.5	2.5	1000	50	1
CMSG5M3R230	230±20%	800	2.5	2.5	1000	100	1
CMSG5M3R350	350±20%	800	2.5	2.5	1000	100	1
CMSG5M3R420	420±20%	900	2.5	2.5	1000	100	1
CMSG5M3R600	600±20%	1200	2.5	2.5	1000	250	1
CMSG5M3R1000	1000±20%	1800	2.5	2.5	1000	250	1

Semiconductor Discharge Tube（半导体放电管）

Part Number 料号	Peak off-state Voltage (V)	Peak Power Dissipation (P_{PK}) (W)	Peak Forward Surge Current (I_{FSM}) (A)	package		Remark
SMAJ5.0 ～ SMAJ440CA	5.0～440	400	40	DO-214AC		
SMBJ5.0～SMBJ440CA	5.0～440	600	100	DO-214AA		
SMCJ5.0～SMCJ440A	5.0～440	1500	200	DO-214AB		
SMDJ5.0～SMDJ170A	5.0～170	3000	300	DO-214AB		
SLCB6.5～SLCB170A	6.5～170	600	100	DO-214AA		C_J 50pF
P6KE6.8~P6KE550CA	6.8～550	600	100	DO-15		

Low Voltage MOSFET

Features

1、Leading edge sub micro trench technology with 750Mcell/in2 (or higher) technology.
2、Low R_{DS}(on) technology to minimize conductive losses.
3、Low leakage current.
4、High immunity to dynamic turn-on.

Part Number	Type	V_{DSS}	V_{GSS}	I_D	$V_{GS(th)}$	$R_{DS(ON)}$ (m• max) at V_{GS}=					ESD	Package
		(V)	(±V)	(A)	Typ.(V)	10V	4.5V	4V	2.5V	1.8V	KV	
◆ 12V Trench Power MOSFET												
CM2311	P	-12	8	-3.5	-0.5		52		63	71		SOT-23
CM3447	P	-12	8	-4.5	-0.6		40		53	72		TSSOP-6
CM6465	P	-12	8	-8.8	-0.48		12		17	25		TSSOP-8
◆ 20V Trench Power MOSFET												
CM2300	N	20	12	5.4	0.78		30		40			SOT-23
CM2301	P	-20	12	-2.8	-0.65		100		150	170		SOT-23
CM2301E	P	-20	8	-2.8	-0.5		110		150		2	SOT-23
CM2302	N	20	8	2.8	0.8		60		115	130		SOT-23
CM2305	P	-20	12	-4.5	-0.85		52		70			SOT-23
CM2312	N	20	8	4.9	0.6		31		37	47		SOT-23
CM2314	N	20	8	5	0.55		25		30	40	2	SOT-23
CM2602	N	20	12	5.5	0.6	30	34		50			SOT-23-6L
CM3413	P	-20	8	3	0.65		80		100	130		SOT-23-6L
CM3414	N	20	8	4.2	0.6		50		63	87		SOT-23-6L
CM3415	P	-20	8	-4	-0.6		55		63	73	2	SOT-23-3L
CM3416	N	20	8	6.5	0.55		24		28	36	2	SOT-23-3L
CM3443	P	-20	12	-4.7	-0.85		60		100			SOT-23-6L
CM3814	Dual-N	20	10	6	0.7		17	19	24		2	DFN3×3
CM5853	P	-20	12	-3.5	-0.65		90		110	130		DFN3x2-8L
CM6463	P	-20	8	-6.2	-0.5		20		27	35		TSSOP-8
CM5N20V	Dual-N	20	12	6	0.67		30		40			SOT-23-6L
CM6968E	Dual-N	20	12	6.5	0.8		24	25	32		2	TSSOP-8
CM6968ES	Dual-N	20	12	6	0.8		24	25	32		2	SOT-23-6L
CM8205	Dual-N	20	12	6	0.67		30		40			SOT-23-6L
CM8205A	Dual-N	20	12	6	0.67		28		40			TSSOP-8
CM8804	Dual-N	20	12	8	0.67	13	14		19	27	2	TSSOP-8
CM8810	Dual-N	20	8	7	0.55		20		24	32	2	TSSOP-8
CM8820	Dual-N	20	12	6.5	0.8		24		32		2	TSSOP-8
CM8822	Dual-N	20	12	7	0.6	21	24		32	50		TSSOP-8
CM8822S	Dual-N	20	12	6	0.6	21	24		32	50		SOT-23-6L

Low Voltage MOSFET

Part Number	Type	V_{DSS}	V_{GSS}	I_D	$V_{GS(th)}$	$R_{DS(ON)}$ (mΩ max) at V_{GS}=					ESD	Package
		(V)	(±V)	(A)	Typ.(V)	10V	4.5V	4V	2.5V	1.8V	KV	
◆ 20V Trench Power MOSFET												
CM9926	Dual-N	20	12	6	0.65		28		40			SOP-8
CM9926E	Dual-N	20	8	8	0.55		21		25	33	2	SOP-8
◆ 30V Trench Power MOSFET												
CM2306	N	30	20	4	1.5	37	49					SOT-23
CM2307	P	-30	20	-3.2	-1.4	70	95					SOT-23
CM2605	P	-30	20	-4.5	-1.4	60	90					SOT-23-6L
CM3018	N	30	20	0.1	1			8	13		0.5	SOT-323
CM3055	N	30	20	15	1.4	26	40					TO-252
CM3400	N	30	12	5.8	1.05	28	33		52			SOT-23-3L
CM3401	P	-30	12	-4.2	-1	60	75		120			SOT-23-3L
CM3401A	P	-30	12	-4	-1.1	50	60		85			SOT-23-3L
CM3404	N	30	20	5.8	1.5	28	43					SOT-23-3L
CM3407	P	-30	20	-4.3	-1.4	60	78					SOT-23-3L
CM3407A	P	-30	20	-4.3	-1.35	48	75					SOT-23-3L
CM3812	N	30	20	2	1.5	42	125		200			DFN3x3
CM4404	N	30	12	8.5	0.9	24	30		48			SOP-8
CM4407	P	-30	25	-10	-1.8	20	28					SOP-8
CM4409	P	-30	20	-15	-1.9	7.5	12					Sop-8
CM4410	N	30	20	10	1.9	15	24					SOP-8
CM4411DY	P	-30	20	-13	-1.3	11	16					SOP-8
CM4414	N	30	20	8.5	1.5	26	40					SOP-8
CM4422	N	30	20	11	1.9	15	24					SOP-8
CM4430	N	30	20	18	1.7	6	10					SOP-8
CM4435	P	-30	20	-9.1	-1.4	20	35					SOP-8
CM4444	N	30	20	20	1.7	5.5	7					SOP-8
CM4604	N+P	30	20	6.9	1.5	26	40					SOP-8
		-30	20	-5	-1.4	60	90					
CM4606	N+P	30	20	6.9	1.5	26	40					SOP-8
		-30	20	-6	-1.35	42	70					
CM4800	Dual-N	30	12	6.9	0.9	27	32		50			SOP-8
CM4812	Dual-N	30	20	6.9	1.5	26	40					SOP-8
CM4953	Dual-P	-30	20	-5.3	-1.4	60	90					SOP-8
CM4953A	Dual-P	-30	20	-5.7	-1.35	42	70					SOP-8
CM55N03	N	25	20	55	1.9	6	9					TO-252

Low Voltage MOSFET

Part Number	Type	V_{DSS}	V_{GSS}	I_D	$V_{GS(th)}$	$R_{DS(ON)}$ (mΩ max) at V_{GS}=					ESD	Package
		(V)	(±V)	(A)	Typ.(V)	10V	4.5V	4V	2.5V	1.8V	KV	
◆ 30V Trench Power MOSFET												
CM6680	N	30	20	12	1.9	10.5	15					SOP-8
CM8831	Dual-P	-30	20	-9.1	-1.4	21	35					SOP-8
CM8958	N+P	30	20	6.5	1.5	28	42					SOP-8
		-30	20	-5.3	-1.4	60	90					
CM9435	P	-30	20	-5.3	-1.4	60	90					SOP-8
CM9435A	P	-30	20	-5.7	-1.35	42	70					SOP-8
◆ 40V Trench Power MOSFET												
CM1404	N	40	20	162	3	4						TO-220
CM2504	N	40	20	18	1.9	25	45					TO-252
CM4404	P	-40	20	-15	-2	44	68					TO-252
CM4565	N+P	40	12	3.9	1.12	40	54					SOP-8
		-40	16	-3.3	-1	54	72					
CM4614	N+P	40	20	6	1.8	31	45					SOP-8
		-40	20	-5	-1.9	45	63					
CM4942	Dual-N	40	20	5.3	1.8	21	28					SOP-8
◆ 60V Trench Power MOSFET												
CM1010	N	60	20	84	3	12						TO-220
CM25N06	N	60	20	15	1.8	41						TO-252
CM3205	N	55	20	110	3	18						TO-220
CM3206	N	60	20	210	3	3						TO-220
CM4436	N	60	20	7.1	1.8	33	40					SOP-8
CM4440	N	60	20	5	1.5	55	75					SOP-8
CM4946	Dual-N	60	20	5.3	1.5	41	52					SOP-8
CM60N06	N	60	20	60	3	16						TO-220
CMFZ40	N	60	20	49	2.8	17.5						TO-220
CM2N7002	N	60	20	0.115	1.6	7500	7500					SOT-23
CM2N7002K	N	60	20	0.4	1.6	3000	4000				2	SOT-23
CM2N7002W	N	60	20	0.115	1.6	7500	7500					SOT-323
CM2N7002KW	N	60	20	0.32	1.6	2300	2700				2	SOT-323
CM2N7002KM	N	60	20	0.115	1.85	7500	7500				2	SOT-723
◆70V(or higher) Power MOSFET												
CM15N75	N	75	20	15	2.5	96	105				2	TO-252
CM16P10	P	-100	20	-11	-2.5	195	210					TO-252
CM10N10	N	100	20	17	1.8	70						TO-252

Low Voltage MOSFET

Part Number	Type	V_{DSS}	V_{GSS}	I_D	$V_{GS(th)}$	$R_{DS(ON)}$ (m• max) at V_{GS}=					ESD	Package
		(V)	(±V)	(A)	Typ.(V)	10V	4.5V	4V	2.5V	1.8V	KV	
◆70V(or higher) Power MOSFET												
CM19N10	N	100	25	15	3	100						TO-252
CM3207	N	75	20	180	3	4.5						TO-220
CM4110	N	100	20	180	3	4.5						TO-220
CM4310	N	100	20	140	3	7						TO-220
CM4460	N	100	20	3.6	2.5	120	145					SOP-8
CM45N10	N	100	25	42	2.5	54						TO-220
CM4610	N	100	20	73	3	14						TO-220
CM4950	N	100	20	3.3	2.5	115	137					SOP-8
CM4952	N	100	20	1.8	2.5	270	300		350			SOP-8
CM75N06	N	70	20	60	3	16						TO-220
CM75N75	N	75	20	80	3	11						TO-220
CM75N80	N	80	20	110	3	11						TO-220
CM80N75	N	75	25	93	3	10						TO-220
CM95N10	N	100	25	120	3	9						TO-220

MOSFET 选型：

A、了解客户的应用场合,针对寻找pin-to-pin的替代方案；
B、 查找被替代的Mosfet的相关参数，如：封装，Id, Vds, Vgs, Rds(on) 等相关参数；
C、利用Excel的筛选功能Selection Guide里查找参数相近或优于被替代组件的参数；
D、利用cross reference文档直接对该需替代料号进行替代。
Note：对于同步整流的电源架构，特别是输入电压与输出电压差别较大的应用里，要求High side Mosfet的输入电容较小，而low side Mosfet的Rds(on)较小.

MOSFET的选择：

针对全新设计的方案应尽量了解客户的应用场合，得到应用的具体参数，如：
驱动信号的电压?电流和工作频率?
输入电压和输出电压,负载电流的大小。
信号的工作方式?对于效率是否有要求？
对空间有何需求 ,其他特殊需求．．．

电感基础知识

●INDUCTOR 电感

一被动组件，其作用在抑制电流的变化，电感亦常被称为“交流电阻”，其抑制电流变化的功能及以磁场储存能 量的能力为电感最有用的特性；电流流经电感时会产生磁场，而磁场的变化会在产生电流的反方向感应一电压，这种抑制电流变化的特性被称为电感值，由电流变化而在电感两端产生感应电压可被定义成：

V=L di/dt

如此，感应电压正比于电感值及电流变化速度。

●INDUCTANCE 电感值

电感器的特征表现，电感值决定了电感器在电路中抑制电流变化能力的大小，电感值的大小，取决于磁体的材质、导体直径、线圈圈数及线圈形状。电感值的国际单位为亨利（H），通常标示为微亨（μH），单位间的换算如下：1H=10^3mH=10^6μH=10^9nH

●电感值标称方法

通常电感值代码用三位数字表示，前两位数字表示标称电感值有效数字，第三位数字表示0的个数（倍率）；如果第三位数是0，则不写；是1，加一个0，；依此类推，“R”表示小数点，标称电感值的单位是μH。例如：R47=0.47μH 4R7=4.7μH 100=10μH 101=10*101=100μH等。

●TOLERANCE容差

容差，表示该电感的实测电感值容许在标称电感值的正负公差内浮动，通常以一特定字母来表示。例如：J（±5%）、K（±10%）、L（±15%）、M（±20%）、N（±30%）等，值越小表示该产品的电感值越稳定、一致性越好。

●DCR（Direct Current Resistance）直流电阻

电感线圈在非交流电下量得之电阻，在电感设计中，直流电阻越小越好，其国际单位为欧姆（Ω），但实际应用中，通常只用到毫欧（mΩ），一般情况下，电感器的DCR都是以最大值为标注。

●Q（Quality Factor）品质系数

品质因数：在正弦波作用下，电感在一个周期内储存的能量与损耗的能量之比，它是表征电感器相对能量损失的 指标，又被称为“品质系数”；它是感抗（XL）与有效电阻（Re）之比，如下所示：

$$Q = \frac{X_L}{Re} = \frac{2\pi fL}{Re}$$

因感抗及有效电阻都相关于频率，当确定品质系数时，需要指定一频率；在低频时，感抗随频率增加的增加速率 比有效电阻大，但在高频时掉的也快，故品质系数对频率的关系形成一钟型曲线；有效电阻主要由绕线直流电阻、铁 损及表面效应产生。由上列公式可看出，在共振频率时品质系数为零，因此此时的电感值为零。

●DISTRIBUTED CAPACITANCE 分布电容值

在电感的结构中，每一圈绕线或导体有如电容电板一般的作用，其每圈结合起来的效果，有如单一之电容值，称 之分布电容值，此电容与电感并联，如此并联的结合使得电感在某频率下会产生谐振，称之自我共振频率（S.R.F），在一定电感值下，较低的分布电容值会有较高之自我谐振，反之亦然。分布电容的存在，在一定程度上会影响电感产品的电感性能，所以在设计时，需要将分布电容的影响降到最低。

●S.R.F(Self-Resonant Frequency) 自谐频率

是在某一频率下，电感之分布电容值与电感值产生共振，此时电感所产生的感抗与电容所产生的容抗大小相等， 方向相反而相互抵消。当频率高于自谐频率时，容抗会主导组件的特性，而且此电感之品质系数于自谐频率时会为零（此时之感抗等于零），自谐振频率以MHz作标记，且在产品数据表内以最小值登记。

●PATED CURRENT 额定电流

允许通过一电感之连续直流电流强度，保证在此电流负载下，电感不失效、且表面温度与工作环境温度差不能超 过40℃。

●SATURATION CURRENT 饱和电流

电感在某一电流下，电感值比原电感值下降一特定量。通常定义的电感值下降百分比有20%和35%。对铁氧磁体铁芯使用20%的电感下降值，对纯铁粉及合金粉铁芯使用35%的电感下降值。

●TEMPERATURE RISE 温升

组件在工作中所产生的热量，表现出的表体温度与环境温度的差值，即为温升。

●AMBIENT TEMPERATURE 环境温度

直接接触组件或电路之静止空气温度。一般量测环境温度的方法是量取离组件1/2寸之处的环境温度。

●STORAGE TEMPERATURE RANGE 储存温度范围

组件可安全、不失效储存的温度范围。

●OPERATING TEMPERATURE RANGE 操作温度范围

指组件可以安全运作的环境温度范围,操作温度与储存温度不同,操作温度需把直流偏压电流所产生的自温升列 入计算,此能量损失为“铜损”。Power Loss=I (DCR)此值由于能量损失造成组件温度上升而高于环境温度,因此,最大的操作温度会小于最大的存储温度,最大操作温度=储存温度-自我温升。

●CURIE TEMPERATURE 居里温度

在此温度或以上,铁氧铁芯失去磁性质,铁芯的磁导率一般在接近居里温度时会急速上升因而电感值亦上升,于 居里温度时,导磁率约降至一,因而使电感值急速下降。对于所有的磁性材料来说,并不是在任何温度下都具有磁性。一般地,磁性材料具有一个临界温度Tc,在这个 温度以上,由于高温下原子的剧烈热运动,原子磁矩的排列是混乱无序的。在此温度以下,原子磁矩排列整齐,产生 自发磁化,物体变成铁磁性的。

●COPPER LOSS 铜损

电流流经线圈所产生之能量损失,此能量损失等于电流平方乘以线圈的电阻(I^2R),这些能量损失转换成热能。

●CORE LOSS 铁损

铁损是由于在铁芯中的变更磁场所造成,这个损失与操作频率及总流动的磁通量有关,总铁损由三个成份组成, 磁滞损耗,涡流损耗及残留损耗,这些损失因磁性材料不同而异,如在高功率及高频率切换调整和RF的设计需要小心 选择铁芯种类以降低铁损使电感的表现最佳。

●CLOSED MAGNETIC PAHT 封闭磁路

具有能完全包容所有由绕线电感所产生之磁通量的磁性铁芯状,皆可被认为是具有屏蔽的电感器,然而屏蔽只是 程度上的不同。

●COMMON-MODE MOISE 共模杂讯

在与接地相关之电路上发生的杂讯或电气干扰。

●SKIN EFFECT 表面效应

表面效应(趋肤效应),是指交流电流较倾向于在导体的表面传导而非流经整个导体截面的趋势,此现象会造成 导体的电阻提高,与导体中之电流有关之磁场在导体中心部位产生涡电流而阻碍了中心部分的主要电流,当交流电的 频率增加时,主要电流的流向会进一步被推挤到导体表面。通常,可用绞线方式来减少其对产品性能的影响。

●FILTER 滤波器

指一电路或装置其功能是在一特定频率或频带下控制电能,不同种类的被动组件常被用来建构不同的滤波器,这 些被动组件包含电阻,电容及电感。

●INPUT LINE FILTER 输入线性滤波器

指一被置于输入端与一电路或组合电路相接之电源滤波器,用以减低由电源所产生的杂讯,此滤波器被设计成可 在一频带内消除杂讯,通常这些滤波器是属于低通滤波器,意思是只让低频带的讯号通过,如直流电源,减低主要以 杂讯为主的高频讯号,带通或低通滤波器通常由电感及电容搭配而成。

●PERMEABILITY (CORE) 导磁率(铁芯)

磁性铁芯的导磁率是令铁芯具有集中磁力线能力的特性,铁芯的材质及铁芯的形状会影响铁芯的“有效导磁率” 对一个已知的铁芯形状,尺寸及材质和特定的绕线,具较高导磁率的磁性材质与较低导磁率的材质比较起来,会有较 高的电感值。

●DC-DC CONVERTER 直流-直流转换器

指一电路或仪器,可将一直流输入电压转换成一调整过的输出电压,此输出电压可小于、大于或者等于输入电 压,交互式直流对直流调整电路需要一电感或电压器,以达到所要之输出电压,交互式调整电路较之非交换式技术, 有更高的功率效率。

●DIFFERENTIAL-MODE NOISE 差模杂讯

也叫正常模式杂讯,这种电气干扰并非发生在电路中而是电路与电路之间。

●EMI (Electromagnetic Interference) 电磁波干扰

是指没有任何用处的电气能量,通常与Noise(杂讯)互用。

●NOISE 杂讯

是指在一电路中与所要的讯号无关的多余能量,杂讯的来源通常为某些形式的切换电路。常见的杂讯源为切换式电压、调整器及时钟脉冲讯号,如一些数字电路。

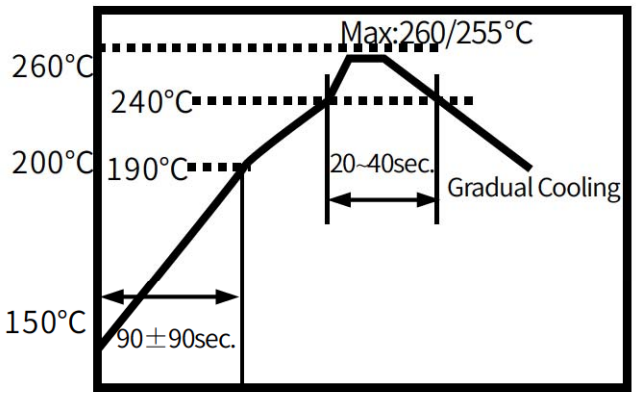
可靠性测试

ITEM项目	Requirements 要求	Test Conditions 测试条件
Operating Temp 工作温度	-22°C~85°C	/
Storage Temp 储存温度	-45~125°C	/
Temperature& Humidity Test 温湿度测试	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	测试温度 (Test Temperature)： 85°C 测试湿度 (Test Humidity)： 85%RH 测试持续时间 (Test Duration)： 144 hours
Thermal shock 热冲击	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	步骤1 (Step 1)：- 45±3°C 30±3Min 步骤2 (Step 2)： 125±3°C 30±3Min 循环次数 (Number of cycle)： 100cycles
Low Temperature Test 低温测试	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	测试温度 (Test Temperature)：- 55±2°C 测试持续时间 (Test Duration)： 24 hours
High temperature test 高温测试	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	测试温度 (Test Temperature)： 125±2°C 测试持续时间 (Test Duration)： 24 hours
Humidity load resistance 耐潮湿	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	通过额定电流，40±2°C，90~95%RH下放置500小时后，置于室温下 24小时后测试。 At 40±2°C,90~95%RH,load rated current for 500H,Measured at room amibient after 24H.
Resistance to solder heat 耐焊性	1、焊接过程中器件无破损。 No damage such as cracks should be caused in chip element. 2、至少有 75%的端电极被焊锡覆盖。 More than 75% of terminal electrode shall be covered with mew solder. 3、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	预热温度 (Preheat temperature)： 100~150°C 预热时间 (Preheat time)： 60sec 焊接温度 (Solder temperature)： 260±10°C 浸焊时间 (Di pping time)： 10±0.5sec
Solder ability 可焊性	1、至少有 75%的端电极被焊锡覆盖。 More than 75% of terminal electrode shall be covered with mew solder. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	预热温度 (Preheat temperature)： 100~150°C 预热时间 (Preheat time)： 60sec 焊接温度 (Solder temperature)： 260±10°C 浸焊时间 (Di pping time)： 10±0.5sec
Reflow soldering 回流焊	1、至少有 50%的端电极被焊锡覆盖。 More than 50% of the terminal electrode shall be covered with solder.	预热温度 (Preheat temperature)： 50°C 预热时间 (Preheat time)： 60sec 焊接温度 (Solder temperature)： 260°C 浸焊时间 (Di pping time)： 10sec.MAX
Drop Test 跌落测试	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	跌落高度 (Drop height)：1m 跌落面 (Drop plane)：混泥土水平面
Vibration 抗震性	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	频率 (Frequency)： 10Hz~55Hz~10Hz 振幅 (Amplitude)：1. 52mm 方向和时间：X/Y/Z各震动2小时，共计6小时 Direction&time：2H/axis,total 6 hour
Mechanical shock test 机械冲击测试	1、无机械损伤。No mechanical damage. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	脉冲波形 (Pulse shape)：半正弦波 half-sine Waveform 加速度 (A cceleration)： 100g 脉冲持续时间 (Pulse Durat ion)： 11ms 脉冲方向 (S hock direction)：±X,±Y,±Z axis 脉冲次数 (S hock times)：3次/方向 3times/direction
Salt Spraying Test 盐雾测试	1、表面无氧化：No surface oxidat ion. 2、阻抗变化在± 30%内，电感量变化在± 10%内，Q值变化在± 30%内。 Impedance change within±30%;Inductance change within±10%;Quality factor change within±30%;	实验介质 (Testing Med ium)：5%氯化钠溶液 5% Sodium Chloride Solution 实验温度 (Testing Temperature)： 35±2°C 实验持续时间 (Testing Duration)： 20hours

焊接温度曲线

Re-flowing Profile

△ 1~2°C/sec.Ramp.
△ Pre-heating:150~190°C/90±30sec.
△ Time above 240°C: 20~40sec.
△ Peak temperature:
for wire wound power inductors, 255°C Max./5sec
for others, 260°C Max./10sec.
△ Solder paste: Sn/3.0Ag/0.5Cu.
△ Max.2 times for Re-flowing.



Iron Soldering Profile

△ Iron soldering power: Max.30W
△ Pre-heating: 150°C</60sec.
△ Soldering Tip temperature: 350°C Max.
△ Soldering time: 3sec. Max.
△ Solder paste: Sn/3.0Ag/0.5Cu
△ Max.1 times for iron soldering

[Note: Take care not to apply the tip of
the soldering iron to the terminal electrodes.]

