

SMD COUPLED INDUCTORS 贴片耦合电感

CM12 系列

FEATURES

- Magnetically shielded, low radiation.
- Tight coupling ($k \geq 0.98$).
- Multiple applications: parallel, series, dual-inductor and transformer.
- AEC-Q200 compliant.
- SMD type, suitable for surface mount equipment.

APPLICATIONS

- Suitable for DC/DC converters, SEPIC-DC/DC converters. Power supplies for Notebooks, desktop computers, servers, LCDs, flat panels, backlights, camcorders, HDTVS.

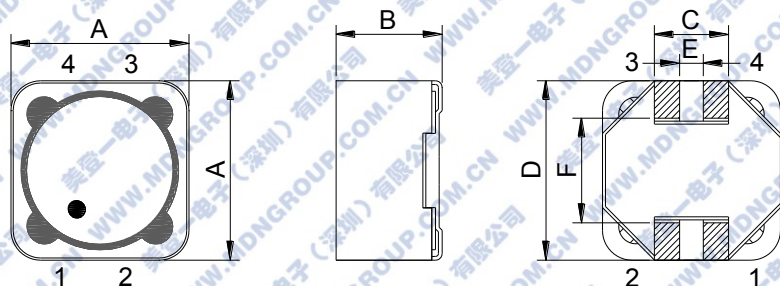
特 征

- 闭磁路低辐射;
- 高耦合系数 ($k \geq 0.98$);
- 多种应用: 并联、串联, 双绕组电感或变压器。
- 符合 AEC-Q200。
- 贴片类型, 适合表面贴装。

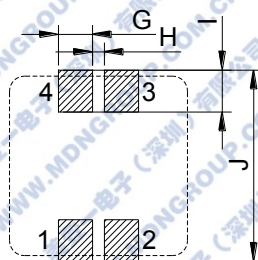
用 途

- 适用于 DC/DC 转换器, SEPIC-DC/DC 转换器。笔记本电脑, 台式电脑, 服务器, LCD 面板, 背投, 摄像机, HDTVS 等产品的电源供应。

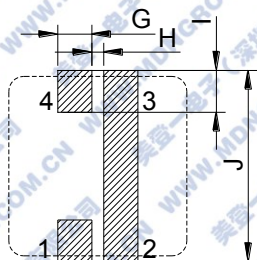
DIMENSIONS, LAND PATTERNS(mm) AND SHAPES



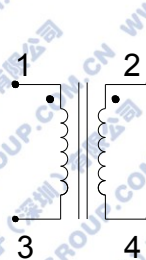
DUAL INDUCTOR MODE



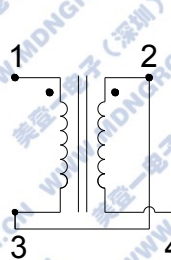
SERIES MODE



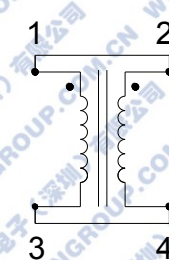
DOUL INDUCTOR



SERIES MODE



PARALLEL MODE



P/N	A (max)	B (max)	C (± 0.5)	D (± 0.5)	E (± 0.2)	F (± 0.5)	G (ref)	H (ref)	I (ref)	J (ref)
CM1260-	12.0	6.3	5.0	12.0	1.5	7.6	2.0	1.5	4.0	12.5
CM1280-	12.0	8.3	5.0	12.0	1.5	7.6	2.0	1.5	4.0	12.5

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CM1260-SERIES							
P/N	L(uH) @100KHz	Lk(uH) @100KHz Ref	DCR (mΩ) Max	SRF (MHz) Typ	Isat (A) Max	Irms(A)	
						Both windings Max	One winding Max
4R7N	4.7±30%	0.2	0.036	32	10.3	3.16	4.47
5R6N	5.6±30%	0.2	0.040	31	9.66	3.00	4.24
6R8N	6.8±30%	0.4	0.048	28	9.21	2.75	3.88
8R2N	8.2±30%	0.25	0.052	25	8.55	2.63	3.72
100M	10±20%	0.26	0.060	22	7.40	2.45	3.46
120M	12±20%	0.28	0.074	21	6.86	2.21	3.12
150M	15±20%	0.32	0.085	17.6	6.09	2.06	2.92
180M	18±20%	0.40	0.097	17.0	5.30	1.93	2.73
220M	22±20%	0.55	0.116	15.0	5.01	1.76	2.49
270M	27±20%	0.60	0.124	13.6	4.66	1.70	2.41
330M	33±20%	0.65	0.134	12.7	4.22	1.64	2.32
470M	47±20%	0.80	0.174	8.7	3.25	1.44	2.03
680M	68±20%	0.97	0.216	6.1	2.83	1.29	1.83
820M	82±20%	1.32	0.274	5.3	2.55	1.15	1.62
101M	100±20%	1.41	0.322	5.0	2.20	1.06	1.50
121M	120±20%	1.54	0.418	4.4	2.05	0.93	1.31
151M	150±20%	1.62	0.476	4.0	1.82	0.87	1.23
181M	180±20%	1.80	0.536	3.6	1.60	0.82	1.16
221M	220±20%	2.00	0.691	3.2	1.51	0.72	1.02
271M	270±20%	2.23	0.801	2.8	1.41	0.67	0.95
331M	330±20%	2.39	1.09	2.5	1.28	0.57	0.81
471M	470±20%	2.89	1.59	2.1	1.00	0.48	0.67
681M	681±20%	3.56	2.06	1.8	0.88	0.42	0.59
821M	820±20%	3.86	2.65	1.5	0.79	0.37	0.52
102M	1000±20%	4.32	3.06	1.2	0.69	0.34	0.49

Remark : Inductance and DCR are for each winding.

When leads are connected in parallel,SRF is the same value.

Leakage inductance is for L1 and is measured with L2 shored.

Inductance decrease current(Isat): Value of inductance decrease within 30%.

Temperature rise current(Irms): A rise in temperature of core surface is within 40℃.

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CM1280-SERIES							
P/N	L(uH) @100KHz 0.25V	Lk(uH) @100KHz Ref	DCR (mΩ) Max	SRF (MHz) Typ	Isat (A) Max	Irms(A)	
						Both windings Max	One winding Max
4R7N	4.7±30%	0.22	0.040	33	16.36	3.16	4.47
5R6N	5.6±30%	0.23	0.046	30	15.74	2.87	4.06
6R8N	6.8±30%	0.22	0.048	23	14.20	2.81	3.98
8R2N	8.2±30%	0.34	0.055	20	12.20	2.76	3.90
100M	10±20%	0.34	0.058	17	10.66	2.56	3.62
120M	12±20%	0.36	0.062	15	9.74	2.48	3.50
150M	15±20%	0.41	0.072	13	9.03	2.30	3.25
180M	18±20%	0.47	0.080	12	7.86	2.18	3.08
220M	22±20%	0.51	0.096	11	7.26	1.99	2.81
270M	27±20%	0.60	0.120	10	7.02	1.78	2.52
330M	33±20%	0.65	0.150	9.5	6.52	1.59	2.25
470M	47±20%	0.70	0.180	7.5	4.60	1.45	2.05
680M	68±20%	0.88	0.210	6.5	4.32	1.35	1.90
820M	82±20%	0.85	0.280	5.0	4.02	1.16	1.65
101M	100±20%	0.90	0.300	4.5	3.46	1.13	1.59
121M	120±20%	1.31	0.410	4.3	3.16	0.96	1.36
151M	150±20%	1.46	0.460	4.1	2.70	0.91	1.29
181M	180±20%	1.53	0.510	4.0	2.58	0.86	1.22
221M	220±20%	1.66	0.690	3.4	2.28	0.74	1.05
271M	270±20%	1.87	0.900	3.1	2.10	0.65	0.92
331M	330±20%	2.14	1.02	2.9	1.84	0.61	0.86
471M	470±20%	2.25	1.53	2.2	1.60	0.50	0.70
681M	681±20%	2.51	2.29	1.7	1.22	0.41	0.58
821M	820±20%	3.39	2.55	1.4	1.18	0.39	0.55
102M	1000±20%	4.28	2.87	1.3	1.05	0.37	0.52

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