

SMD COUPLED INDUCTORS 贴片耦合电感

CM74 系列

FEATURES

- Magnetically shielded, low radiation.
- Tight coupling ($k \geq 0.98$).
- Multiple applications: parallel, series, dual-inductor and transformer.
- Common and differential-mode filtering in a single device.
- 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.

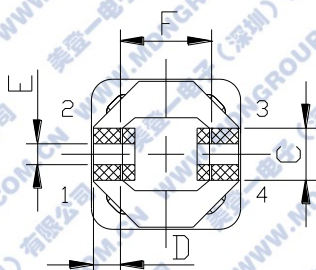
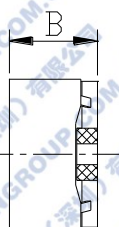
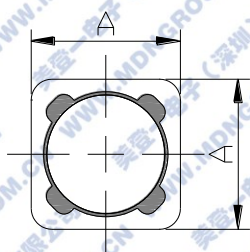
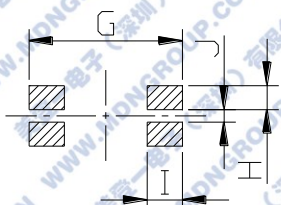
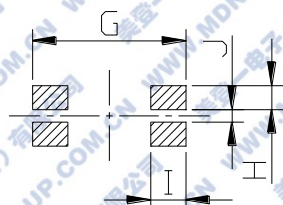
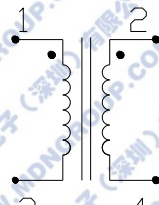
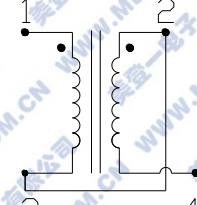
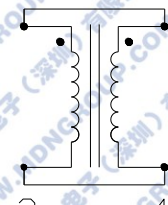
特 征

- 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。
- 可应用于共模或差模信号的滤波。
- 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
MODESERIES
MODEDUAL
INDUCTORSERIES
MODEPARALLEL
MODE

P/N	A (max)	B (max)	C (± 0.3)	D (± 0.3)	E (± 0.2)	F (± 0.5)	G (ref)	H (ref)	I (ref)	J (ref)
CM74-	7.50	4.60	2.65	4.5	1.25	4.5	7.5	1.1	2.1	1.25

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CM74-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
3R3N	3.3±30%	0.09	0.037	43	5.4	2.05	2.89
4R7N	4.7±30%	0.11	0.051	35	4.6	1.74	2.46
5R6N	5.6±30%	0.09	0.063	32	4.2	1.57	2.22
6R8N	6.8±30%	0.14	0.070	30	3.9	1.49	2.10
8R2N	8.2±30%	0.25	0.075	27	3.5	1.44	2.03
100M	10±20%	0.30	0.100	22	3.0	1.24	1.76
120M	12±20%	0.36	0.120	20	2.7	1.14	1.61
150M	15±20%	0.49	0.130	18	2.4	1.09	1.54
180M	18±20%	0.16	0.170	15	2.3	0.95	1.35
220M	22±20%	0.20	0.220	13.5	2.1	0.84	1.19
270M	27±20%	0.20	0.250	12.0	1.9	0.79	1.11
330M	33±20%	0.15	0.270	11.0	1.7	0.76	1.07
470M	47±20%	0.30	0.420	9.5	1.4	0.61	0.86
560M	56±20%	0.51	0.460	8.7	1.3	0.58	0.82
680M	68±20%	0.51	0.600	7.3	1.2	0.51	0.72
820M	82±20%	1.17	0.680	6.2	1.1	0.48	0.67
101M	100±20%	0.96	0.770	5.5	0.98	0.45	0.63
121M	120±20%	0.61	1.03	4.5	0.90	0.39	0.55
151M	150±20%	0.54	1.35	4.0	0.80	0.34	0.48
181M	180±20%	0.75	1.52	3.8	0.73	0.32	0.45
221M	220±20%	1.43	1.72	3.5	0.66	0.30	0.42
271M	270±20%	1.56	2.41	3.3	0.60	0.25	0.36
331M	330±20%	1.65	2.70	3.0	0.54	0.24	0.34
391M	390±20%	4.73	3.05	2.8	0.50	0.23	0.32
471M	470±20%	5.50	4.00	2.6	0.46	0.20	0.28
681M	681±20%	4.85	5.00	2.3	0.38	0.18	0.25
821M	820±20%	7.59	6.80	2.2	0.35	0.15	0.21
102M	1000±20%	8.69	7.80	2.0	0.31	0.14	0.20

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℃.