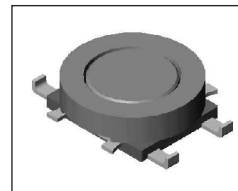


SMT Power Inductor

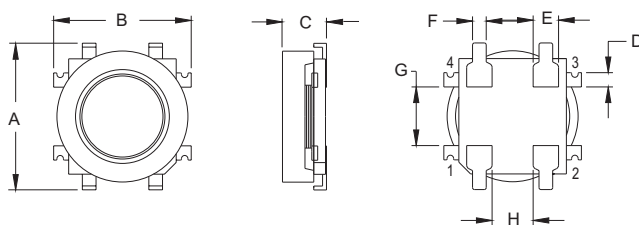
SIC73 Type

Features

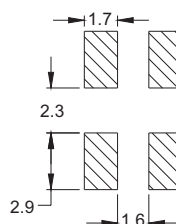
- RoHS compliant.
- Low profile (2.5mm max. height) SMD type.
- Magnetically shielded, suitable for high density mounting.
- High energy storage and low DCR.
- Provided with embossed carrier tape packing.
- Ideal for power source circuits, DC-DC converter, DC-AC inverters inductor application.
- In addition to the standard versions shown here, customized inductors are available to meet your exact requirements.



Mechanical Dimension:



RECOMMENDED PAD PATTERNS



UNIT:mm/inch

A = 7.5 ± 0.5 / 0.295 ± 0.020

B = 6.8 ± 0.5 / 0.268 ± 0.020

C = 2.5 / 0.098 Max.

D = 0.7 / 0.028

E = 1.2 / 0.047

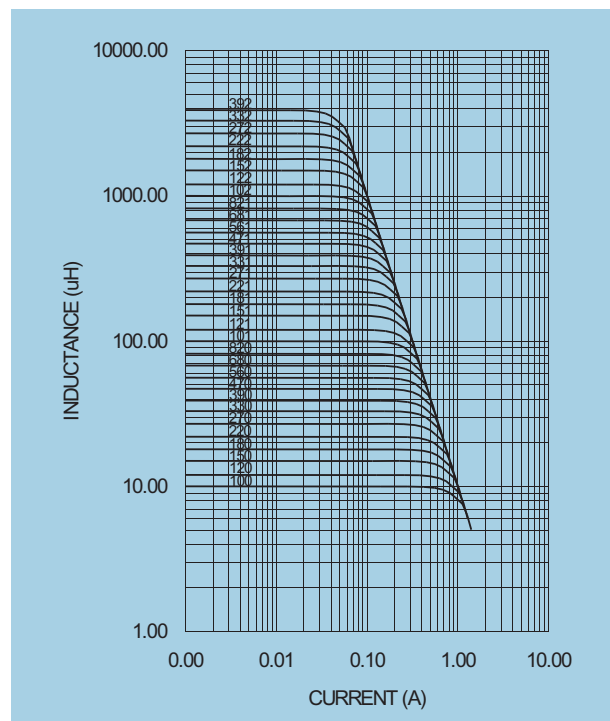
F = 0.7 / 0.028

G = 2.8 / 0.110

H = 2.0 / 0.079

Electrical Characteristics: At 25°C: 1KHz, 1V

PART NO.	L ¹ (μH)	DCR (Ω) MAX	I _{rated} ² (A dc)
SIC73-100	10	0.200	0.700
SIC73-120	12	0.220	0.616
SIC73-150	15	0.291	0.572
SIC73-180	18	0.307	0.524
SIC73-220	22	0.355	0.468
SIC73-270	27	0.412	0.432
SIC73-330	33	0.456	0.392
SIC73-390	39	0.580	0.372
SIC73-470	47	0.671	0.340
SIC73-560	56	0.735	0.284
SIC73-680	68	0.981	0.276
SIC73-820	82	1.110	0.256
SIC73-101	100	1.250	0.228
SIC73-121	120	1.400	0.208
SIC73-151	150	1.850	0.188
SIC73-181	180	2.110	0.168
SIC73-221	220	2.540	0.160
SIC73-271	270	4.130	0.144
SIC73-331	330	4.350	0.128
SIC73-391	390	4.860	0.120
SIC73-471	470	6.640	0.104
SIC73-561	560	7.250	0.096
SIC73-681	680	8.180	0.088
SIC73-821	820	9.680	0.080
SIC73-102	1000	15.400	0.072
SIC73-122	1200	18.100	0.070
SIC73-152	1500	18.800	0.064
SIC73-182	1800	20.600	0.055
SIC73-222	2200	32.300	0.050
SIC73-272	2700	36.800	0.046
SIC73-332	3300	40.900	0.040
SIC73-392	3900	48.800	0.037



1. Tolerance of inductance: ±30% for 10~82μH, ±20% for 100~820μH, ±10% for 1000~3900μH.
2. I_{rated} is the DC current which cause the inductance drop 10% typical of its nominal inductance without current and the surface temperature of the part increase less than 45°C.
3. Operating temperature : -20°C to 105°C (including self-temperature rise).



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