

High Current, Shielded, Surface Mount Inductor



FEATURES

- High energy storage.
- Low resistance.
- Magnetically shielded.
- Tape and reel packaging for automatic handling.

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μ H to 10,000 μ H, tested at 1.0Vrms.

Inductance Tolerance: 20%, tighter tolerances available upon request.

Operating Temperature: - 40°C to + 125°C.

Resistance to Solder Heat: 260°C for 10 seconds.

MATERIALS

Core: Ferrite.

Wire: Enamelled copper wire.

Base: Ceramic.

Terminal: Gold over Nickel.

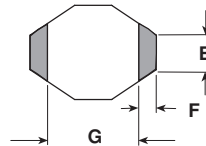
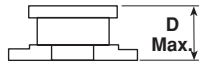
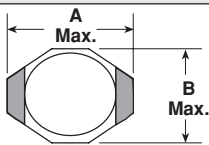
Adhesive: Epoxy resin.

STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (μ H)	TOLERANCE	TEST FREQUENCY L (KHz)	DCR MAXIMUM (Ohms)	RATED DC CURRENT* (Amps)
1.0	± 20%	100	0.040	3.0
1.5	± 20%	100	0.045	2.8
2.2	± 20%	100	0.050	1.8
3.3	± 20%	100	0.055	1.6
4.7	± 20%	100	0.060	1.4
6.8	± 20%	100	0.065	1.2
10	± 20%	100	0.075	1.0
15	± 20%	100	0.090	0.80
22	± 20%	100	0.11	0.70
33	± 20%	100	0.19	0.60
47	± 20%	100	0.23	0.50
68	± 20%	100	0.29	0.40
100	± 20%	100	0.48	0.30
150	± 20%	100	0.59	0.26
220	± 20%	100	0.77	0.22
330	± 20%	100	1.4	0.20
470	± 20%	100	1.8	0.19
680	± 20%	100	2.2	0.18
1000	± 20%	100	3.4	0.15
1500	± 20%	100	4.2	0.12
2200	± 20%	100	8.5	0.10
3300	± 20%	100	11.0	0.08
4700	± 20%	100	13.9	0.06
6800	± 20%	100	25.0	0.04
10,000	± 20%	100	32.8	0.02

*30°C temperature rise.

DIMENSIONS in inches [millimeters]



A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J
0.260 [6.60]	0.175 [4.45]	0.115 [2.92]	0.050 [1.27]	0.040 [1.02]	0.170 [4.32]	0.055 [1.40]	0.160 [4.06]	0.140 [3.56]

DESCRIPTION

IDCS-2512
MODEL

10 μ H
INDUCTANCE VALUE

± 20%
INDUCTANCE TOLERANCE

SAP PART NUMBERING GUIDELINES (INTERNAL)



PRODUCT FAMILY



SIZE



PACKAGE
CODE



INDUCTANCE
VALUE



TOL.

See the end of this data book for conversion tables