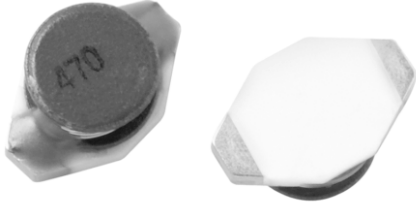


High Current, Surface Mount Inductor



FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- 100 % lead (Pb)-free and RoHS compliant



RoHS
COMPLIANT

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μ H to 1000 μ H, tested at 1.0 Vrms

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)	Isat (Amps)	Irms (Amps)
1.0	$\pm 20\%$	100	0.05	2.9	2.9
1.5	$\pm 20\%$	100	0.05	2.6	2.8
2.2	$\pm 20\%$	100	0.07	2.3	2.4
3.3	$\pm 20\%$	100	0.08	2.0	2.0
4.7	$\pm 20\%$	100	0.09	1.5	1.5
6.8	$\pm 20\%$	100	0.13	1.2	1.4
10	$\pm 20\%$	100	0.16	1.1	1.1
15	$\pm 20\%$	100	0.23	0.90	1.2
22	$\pm 20\%$	100	0.37	0.70	0.80
33	$\pm 20\%$	100	0.51	0.58	0.60
47	$\pm 20\%$	100	0.64	0.50	0.50
68	$\pm 20\%$	100	0.86	0.40	0.40
100	$\pm 20\%$	100	1.27	0.31	0.30
150	$\pm 20\%$	100	2.00	0.27	0.25
220	$\pm 20\%$	100	3.11	0.22	0.20
330	$\pm 20\%$	100	3.80	0.18	0.16
470	$\pm 20\%$	100	5.06	0.16	0.15
680	$\pm 20\%$	100	9.20	0.14	0.12
1000	$\pm 20\%$	100	13.8	0.10	0.07

Inductance drop = 10 % typ. at Isat

$\Delta T = 15$ °C typ. at Irms

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

IDC-2512 MODEL	10 μ H INDUCTANCE VALUE	$\pm 20\%$ INDUCTANCE TOLERANCE	ER PACKAGE CODE	e4 JEDEC LEAD (Pb)-FREE STANDARD
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GLOBAL PART NUMBER

I D C	2 5 1 2	E R	1 0 0	M
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	TOL.



Disclaimer

All product specifications and data are subject to change without notice.

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