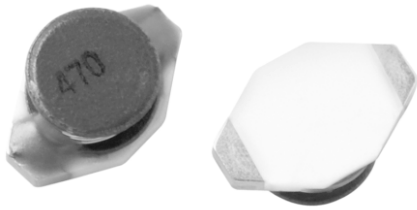


## High Current, Surface Mount Inductor



### 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  $\mu$ H to 1000  $\mu$ 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 ( $\mu$ 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

$\Delta T = 15 \text{ }^{\circ}\text{C}$  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 $\mu$ 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.



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