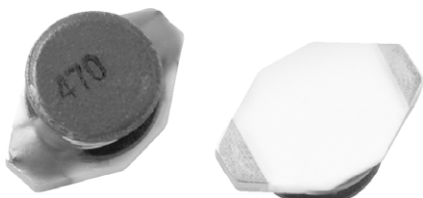


# High Current, Surface Mount Inductors - Non-Shielded



## FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization:  
for definitions of compliance please see  
[www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

## ELECTRICAL SPECIFICATIONS

**Inductance Range:** 1.0  $\mu$ H to 1000  $\mu$ H, tested at 0.1 V<sub>RMS</sub>

**Inductance Tolerance:** 20 %, tighter tolerance available upon request

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

**Resistance to Solder Heat:** 260 °C for 10 s

## MECHANICAL SPECIFICATIONS

**Core:** ferrite

**Wire:** enamelled copper wire

**Base:** ceramic

**Terminals:** gold over nickel

**Adhesive:** epoxy resin

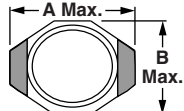
## STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE ( $\mu$ H)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. ( $\Omega$ )	I <sub>SAT</sub> (A)	I <sub>RMS</sub> (A)
1.0	± 20 %	100	0.05	2.9	2.9
1.5	± 20 %	100	0.05	2.6	2.8
2.2	± 20 %	100	0.07	2.3	2.4
3.3	± 20 %	100	0.08	2.0	2.0
4.7	± 20 %	100	0.09	1.5	1.5
6.8	± 20 %	100	0.13	1.2	1.4
10	± 20 %	100	0.16	1.1	1.1
15	± 20 %	100	0.23	0.90	1.2
22	± 20 %	100	0.37	0.70	0.80
33	± 20 %	100	0.51	0.58	0.60
47	± 20 %	100	0.64	0.50	0.50
68	± 20 %	100	0.86	0.40	0.40
100	± 20 %	100	1.27	0.31	0.30
150	± 20 %	100	2.00	0.27	0.25
220	± 20 %	100	3.11	0.22	0.20
330	± 20 %	100	3.80	0.18	0.16
470	± 20 %	100	5.06	0.16	0.15
680	± 20 %	100	9.20	0.14	0.12
1000	± 20 %	100	13.8	0.10	0.07

### Notes

- Inductance drop = 10 % typ. at I<sub>SAT</sub>
- $\Delta$ T = 15 °C typ. at I<sub>RMS</sub>

## 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	10 $\mu$ H	± 20 %	ER	e4
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

## GLOBAL PART NUMBER

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



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