

## High Current, Surface Mount Inductors



### FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



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

### ELECTRICAL SPECIFICATIONS

**Inductance Range:** 1.0  $\mu$ H to 1000  $\mu$ H, tested at 1.0  $V_{RMS}$   
**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:** LCP  
**Terminals:** Nickel bronze  
**Adhesive:** Epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS					
INDUCTANCE ( $\mu$ H)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. ( $\Omega$ )	$I_{SAT}$ (A)	$I_{RMS}$ (A)
1.0	± 20 %	100	0.009	20.0	8.6
2.2	± 20 %	100	0.014	16.0	7.1
3.3	± 20 %	100	0.018	14.0	6.2
5.6	± 20 %	100	0.020	12.0	5.3
10	± 20 %	100	0.031	10.0	4.3
15	± 20 %	100	0.036	8.0	4.0
22	± 20 %	100	0.047	7.0	3.5
33	± 20 %	100	0.066	5.5	3.0
47	± 20 %	100	0.086	4.5	2.6
68	± 20 %	100	0.13	3.5	2.3
100	± 20 %	100	0.19	3.0	1.8
150	± 20 %	100	0.25	2.6	1.5
220	± 20 %	100	0.38	2.4	1.2
330	± 20 %	100	0.56	1.9	1.0
470	± 20 %	100	0.85	1.4	0.82
680	± 20 %	100	1.1	1.2	0.72
1000	± 20 %	100	1.8	1.0	0.56

#### Notes

- Inductance drop = 10 % typ. at  $I_{SAT}$
- $\Delta T = 40$  °C typ. at  $I_{RMS}$

DIMENSIONS in inches [millimeters]								
A (Max.)	B (Max.)	D (Max.)	E	F	G	H	I	J
0.730 [18.54]	0.600 [15.24]	0.280 [7.11]	0.100 [2.54]	0.100 [2.54]	0.500 [12.70]	0.115 [2.92]	0.490 [12.45]	0.110 [2.79]

DESCRIPTION				
<b>IDC-7328</b>	<b>10 <math>\mu</math>H</b>	<b>± 20 %</b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER												
I	D	C	7	3	2	8	E	R	1	0	0	M
PRODUCT FAMILY			SIZE			PACKAGE CODE		INDUCTANCE VALUE			TOL.	



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