

## High Current, Shielded, Surface Mount Inductor



### FEATURES

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


**RoHS**  
COMPLIANT

### ELECTRICAL SPECIFICATIONS

**Inductance Range:** 10  $\mu$ 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:** LCP

**Terminal:** Nickel bronze

**Adhesive:** Epoxy resin

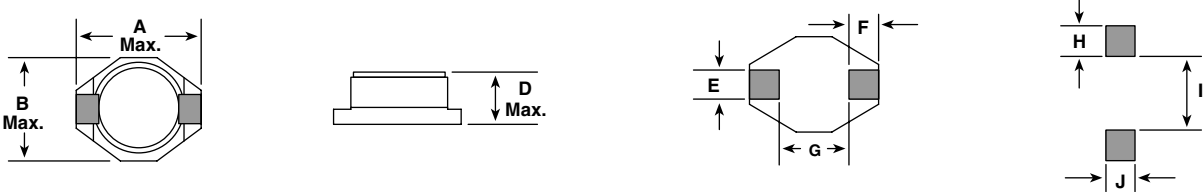
### STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE ( $\mu$ H)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAXIMUM (Ohms)	Isat (Amps)	Irms (Amps)
10	$\pm 20$ %	100	0.040	8.0	3.9
15	$\pm 20$ %	100	0.048	7.0	3.4
22	$\pm 20$ %	100	0.059	6.0	3.1
33	$\pm 20$ %	100	0.075	5.0	2.8
47	$\pm 20$ %	100	0.097	4.0	2.4
68	$\pm 20$ %	100	0.138	3.0	2.0
100	$\pm 20$ %	100	0.207	2.4	1.7
150	$\pm 20$ %	100	0.293	2.1	1.3
220	$\pm 20$ %	100	0.47	1.9	1.1
330	$\pm 20$ %	100	0.78	1.1	0.86
470	$\pm 20$ %	100	1.08	1.1	0.73
680	$\pm 20$ %	100	1.40	0.96	0.64
1000	$\pm 20$ %	100	2.01	0.80	0.53

Inductance drop = 10 % typ. at Isat

 $\Delta$ GT = 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]	0.300 [7.62]	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>IDCS-7328</b>	<b>10 <math>\mu</math>H</b>	<b><math>\pm 20</math> %</b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD FREE STANDARD

### GLOBAL PART NUMBER

<b>I</b>	<b>D</b>	<b>C</b>	<b>S</b>	<b>7</b>	<b>3</b>	<b>2</b>	<b>8</b>	<b>E</b>	<b>R</b>	<b>1</b>	<b>0</b>	<b>0</b>	<b>M</b>
MODEL				SIZE				PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE



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