



## High Current, Shielded, Surface Mount Inductor



### FEATURES

- High energy storage.
- Low resistance.
- Magnetically shielded.
- Tape and reel packaging for automatic handling.

### ELECTRICAL SPECIFICATIONS

**Inductance Range:** 10 $\mu$ H to 1000 $\mu$ H, tested at 1.0Vrms.

**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

$\Delta T = 40^\circ\text{C}$  typ. at Irms

### 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

IDCS-7328	10 $\mu$ H	$\pm 20\%$
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE

### SAP PART NUMBERING GUIDELINES (INTERNAL)

I	D	C	S	7	3	2	8	N	B	1	0	0	M
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.

See the end of this data book for conversion tables