High Current, Surface Mount Inductors - Shielded

FEATURES

- High energy storage
- Low resistance
- Magnetically shielded
- Tape and reel packaging for automatic handling
- Material categorization: For definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 10 µH to 1000 µH, 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

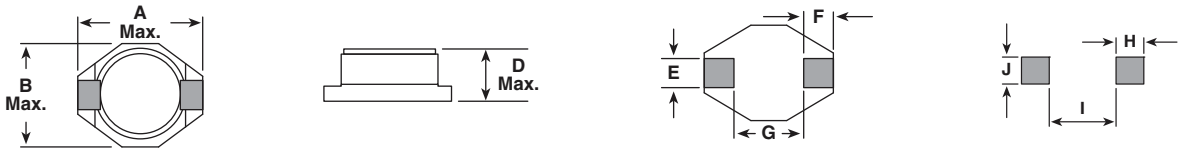
STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I_{SAT} (A)	I_{RMS} (A)
10	± 20 %	100	0.040	8.0	3.9
15	± 20 %	100	0.048	7.0	3.4
22	± 20 %	100	0.059	6.0	3.1
33	± 20 %	100	0.075	5.0	2.8
47	± 20 %	100	0.097	4.0	2.4
68	± 20 %	100	0.138	3.0	2.0
100	± 20 %	100	0.207	2.4	1.7
150	± 20 %	100	0.293	2.1	1.3
220	± 20 %	100	0.47	1.9	1.1
330	± 20 %	100	0.78	1.1	0.86
470	± 20 %	100	1.08	1.1	0.73
680	± 20 %	100	1.40	0.96	0.64
1000	± 20 %	100	2.01	0.80	0.53

Notes

- Inductance drop = 10 % typ. at I_{SAT}
- ΔT = 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

IDCS-7328	10 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	D	C	S	7	3	2	8	E	R	1	0	0	M
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE

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