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High Current, Surface Mount Inductors - Shielded



ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μH to 390.0 μH , tested at 0.1 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

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



RoHS COMPLIANT

HALOGEN FREE

MECHANICAL SPECIFICATIONS

Core: ferrite

Wire: enamelled copper wire

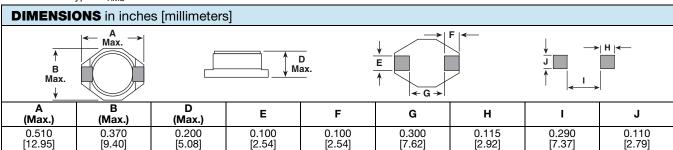
Base: LCP

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)			
1.0	± 20 %	100	0.021	5.6	5.0			
1.5	± 20 %	100	0.022	5.2	4.5			
2.2	± 20 %	100	0.032	5.0	3.8			
3.3	± 20 %	100	0.039	3.9	3.3			
4.7	± 20 %	100	0.054	3.2	2.7			
6.8	± 20 %	100	0.075	2.8	2.2			
10	± 20 %	100	0.101	2.4	2.0			
15	± 20 %	100	0.150	2.0	1.5			
22	± 20 %	100	0.207	1.6	1.3			
33	± 20 %	100	0.334	1.4	1.1			
47	± 20 %	100	0.472	1.0	0.80			
56	± 20 %	100	0.210	0.95	0.90			
68	± 20 %	100	0.340	0.90	0.82			
82	± 20 %	100	0.380	0.85	0.75			
100	± 20 %	100	0.420	0.80	0.68			
120	± 20 %	100	0.460	0.70	0.60			
150	± 20 %	100	0.520	0.60	0.55			
180	± 20 %	100	0.700	0.65	0.50			
220	± 20 %	100	0.800	0.50	0.45			
270	± 20 %	100	1.100	0.45	0.40			
330	± 20 %	100	1.200	0.40	0.35			
390	± 20 %	100	1.400	0.35	0.33			

Notes

- Inductance drop = 10 % typ. at I_{SAT}
- $\Delta T = 15$ °C typ. at I_{RMS}



DESCRIPTIO	N								
IDCS-5020	10 μH	± 20 %	ER	e3					
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD					
GLOBAL PART NUMBER									

GLOBAL PART NUMBER				
I D C S	5 0 2 0	E R	1 0 0	M
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE



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