



High Current, Shielded, Surface Mount Inductors





ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μH to 10 000 μH , tested at 1.0 V_{RMS} Inductance Tolerance: 20 %, tighter tolerance available

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
- Compliant to RoHS Directive 2002/95/EC
- Halogen-free according to IEC 61249-2-21 definition



COMPLIANT HALOGEN

FREE

MECHANICAL SPECIFICATIONS

Core: Ferrite

Wire: Enamelled copper wire

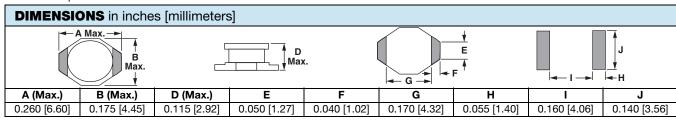
Base: Ceramic

Terminals: Gold over nickel Adhesive: Epoxy resin

STANDARD ELECTRICAL SPECIFICATIONS						
1.0	± 20 %	100	0.040	3.0		
1.5	± 20 %	100	0.045	2.8		
2.2	± 20 %	100	0.050	1.8		
3.3	± 20 %	100	0.055	1.6		
4.7	± 20 %	100	0.060	1.4		
6.8	± 20 %	100	0.065	1.2		
10	± 20 %	100	0.075	1.0		
15	± 20 %	100	0.090	0.80		
22	± 20 %	100	0.11	0.70		
33	± 20 %	100	0.19	0.60		
47	± 20 %	100	0.23	0.50		
68	± 20 %	100	0.29	0.40		
100	± 20 %	100	0.48	0.30		
150	± 20 %	100	0.59	0.26		
220	± 20 %	100	0.77	0.22		
330	± 20 %	100	1.4	0.20		
470	± 20 %	100	1.8	0.19		
680	± 20 %	100	2.2	0.18		
1000	± 20 %	100	3.4	0.15		
1500	± 20 %	100	4.2	0.12		
2200	± 20 %	100	8.5	0.10		
3300	± 20 %	100	11.0	0.08		
4700	± 20 %	100	13.9	0.06		
6800	± 20 %	100	25.0	0.04		
10 000	± 20 %	100	32.8	0.02		

Notes
(1) 30 °C temperature rise

DESCRIPTION



IDCS-2512	10 µH	± 20 %	ER	e4				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD				
GLOBAL PART NUMBER								
			_ D					

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



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Vishay

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Revision: 02-Oct-12 Document Number: 91000