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Vishay Dale

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



ROHS COMPLIANT HALOGEN

FREE

MECHANICAL SPECIFICATIONS

Core: ferrite

Wire: enamelled copper wire

Base: ceramic

Terminals: gold over nickel **Adhesive:** epoxy resin

ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 μH to 10 000 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

STANDARD ELECTRICAL SPECIFICATIONS						
INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	RATED DC CURRENT (A) (1)		
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	0.90	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		

Note

^{(1) 40 °}C temperature rise

DIMENSIONS in inches [millimeters]								
	A Max. B Max. Max.						J ←H	
A (Max.)	B (Max.)	D (Max.)	E	F	G	н	I	J
0.260 [6.60]	0.175 [4.45]	0.115 [2.92]	0.050 [1.27]	0.040 [1.02]	0.170 [4.32]	0.055 [1.40]	0.160 [4.06]	0.140 [3.56]

DESCRIPTIO	N						
IDCS-2512 10 μH		± 20 %	ER	e4			
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD			
CLODAL DADT MIMAPED							

GLOBAL PART NUMBER								
PRODUCT FAMILY	2 5 1 2 SIZE	PACKAGE CODE	1 0 0 INDUCTANCE VALUE	M INDUCTANCE TOLERANCE				



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