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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



COMPLIANT

HALOGEN FREE

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

MECHANICAL SPECIFICATIONS

Core: ferrite

Wire: enamelled copper wire

Base: ceramic

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

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

DESCRIPTION

DIMENSIONS in inches [millimeters]								
	A Max.	D E E					<u> </u>	
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]

IDCS-2512 10 μH ± 20		•					
MODEL INDUCTANCE VALUE INDUCTANCE	TOLERANCE PACKAGE	E CODE JEDEC LEAD (Pb)-FREE STAND					
GLOBAL PART NUMBER							

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

^{(1) 40 °}C temperature rise



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Vishay

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IDCS2512ER332M	IDCS2512ER470M	IDCS2512ER472M	IDCS2512ER680M	IDCS2512ER681M
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