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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  $\mu H$  to 10 000  $\mu H$ , 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 Max	τ.	G -	∳ E F		J I <del></del> 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]

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

<sup>(1) 40 °</sup>C temperature rise



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