IDCS-2512

Vishay Dale

RoHS

High Current, Surface Mount Inductors - Shielded



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

FEATURES

- High energy storage
- Low resistance
- Magnetically shielded
- Tape and reel packaging for automatic handling
- Material categorization: COMPLIANT for definitions of compliance please see HALOGEN www.vishay.com/doc?99912
 FREE

MECHANICAL SPECIFICATIONS

Core: ferrite

Wire: enamelled copper wire Base: ceramic Terminals: gold over nickel Adhesive: epoxy resin

INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	RATED DC CURRENT (A) ⁽¹⁾ 3.0	
1.0	± 20 %	100	0.040		
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.		D Max	۲.		_↓ E F		<u>+</u>				
A (Max.)	B (Max.)	D (Max.)	Е	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]				
DESCRIPTION												
IDCS-2512 MODEL		10 μΗ ΓANCE VALUE		0 % TOLERANCE	ER PACKAGE C	ODE JEDEC	e4 CLEAD (Pb)-FR	EE STANDARD				
GLOBAL PART NUMBER												
1	DC	S 2	5 1	2	ER	1	0 0	Μ				
PR	ODUCT FAMIL	Y	SIZE		PACKAGE CODE			NDUCTANCE TOLERANCE				
Revision: 21-Ap	or-17			1			Documen	t Number: 34009				

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