IDC-2512

Vishay Dale

FREE





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ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 µH to 1000 µH, tested at 0.1 V_{BMS} Inductance Tolerance: 20 %, tighter tolerance available upon request

Operating Temperature: -40 °C to +125 °C Resistance to Solder Heat: 260 °C for 10 s

STANDADD ELECTRICAL SDECIEICATIONS

FEATURES

- · High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- RoHS Material categorization: COMPLIANT for definitions of compliance please see <u>www.vishay.com/doc?99912</u> HALOGEN

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)	I _{SAT} (A)	I _{RMS} (A)	
1.0	± 20 %	100	0.05	2.9	2.9	
1.5	± 20 %	100	0.05	2.6	2.8	
2.2	± 20 %	100	0.07	2.3	2.4	
3.3	± 20 %	100	0.08	2.0	2.0	
4.7	± 20 %	100	0.09	1.5	1.5	
6.8	± 20 %	100	0.13	1.2	1.4	
10	± 20 %	100	0.16	1.1	1.1	
15	± 20 %	100	0.23	0.90	1.2	
22	± 20 %	100	0.37	0.70	0.80	
33	± 20 %	100	0.51	0.58	0.60	
47	± 20 %	100	0.64	0.50	0.50	
68	± 20 %	100	0.86	0.40	0.40	
100	± 20 %	100	1.27	0.31	0.30	
150	± 20 %	100	2.00	0.27	0.25	
220	± 20 %	100	3.11	0.22	0.20	
330	± 20 %	100	3.80	0.18	0.16	
470	± 20 %	100	5.06	0.16	0.15	
680	± 20 %	100	9.20	0.14	0.12	
1000	± 20 %	100	13.8	0.10	0.07	

Notes

Inductance drop = 10 % typ. at I_{SAT}

 $\Delta T = 15 \ ^{\circ}C \text{ typ. at } I_{RMS}$

DIMENSIONS in inches [millimeters]												
	Max.		D Max	۲.		<u>↓</u> E _ ↓		J J I → 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]				
DESCRIPTION												
IDC-2512 MODEL	10 μH INDUCTANCE	VALUE INC	± 20 % DUCTANCE TOL	FRANCE F	ER PACKAGE CODE			STANDARD				
GLOBAL PART NUMBER												
GLOBAL	PART NUM	BER										
	PART NUM	2	5 1 SIZE	2	E R ACKAGE CODE	I 0 INDUCTA		M TOL.				

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For technical questions, contact: magnetics@vishay.com

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