IDC-2512

Vishay Dale

RoHS

FREE





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ELECTRICAL SPECIFICATIONS

Inductance Range: 1.0 µH to 1000 µH, tested at 1.0 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

STANDADD ELECTRICAL SDECIEICATIONS

FEATURES

- · High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- 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

STANDARD ELECTRICAL SPECIFICATIONS										
INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I _{SAT} (A)	I _{RMS} (А) 2.9					
1.0	± 20 %	100	0.05	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	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]												
	A Max.		D Max	۲.				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]				
DESCRIPT	TION 10 μΗ INDUCTANCE	VALUE INC	± 20 % DUCTANCE TOL	ERANCE F	ER PACKAGE CODE	JEDEC L	e4 EAD (Pb)-FREE	STANDARD				
GLOBAL PART NUMBER												
	D C PRODUCT FAMILY	2	5 1 SIZE		E R PACKAGE CODE	1 0 INDUCTA VALU		M Tol.				

Revision: 20-Sep-13

Document Number: 34006

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