### **IDC-7328**



Vishay Dale

# **High Current, Surface Mount Inductors - Non-Shielded**



#### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 1.0 µH to 1000 µH, tested at 0.1 V<sub>RMS</sub> Inductance Tolerance: 20 %, tighter tolerance available upon request

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

### **FEATURES**

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



HALOGEN

FREE

# **MECHANICAL SPECIFICATIONS**

Core: ferrite Wire: enamelled copper wire Base: LCP Terminals: nickel bronze Adhesive: epoxy resin

NDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I <sub>SAT</sub> (A)	I <sub>RMS</sub> (A)	
1.0	± 20 %	100	0.009	20.0	8.6	
2.2	± 20 %	100	0.014	16.0	7.1	
3.3	± 20 %	100	0.018	14.0	6.2	
5.6	± 20 %	100	0.020	12.0	5.3	
10	± 20 %	100	0.031	10.0	4.3	
15	± 20 %	100	0.036	8.0	4.0	
22	± 20 %	100	0.047	7.0	3.5	
33	± 20 %	100	0.066	5.5	3.0	
47	± 20 %	100	0.086	4.5	2.6	
68	± 20 %	100	0.13	3.5	2.3	
100	± 20 %	100	0.19	3.0	1.8	
150	± 20 %	100	0.25	2.6	1.5	
220	± 20 %	100	0.38	2.4	1.2	
330	± 20 %	100	0.56	1.9	1.0	
470	± 20 %	100	0.85	1.4	0.82	
680	± 20 %	100	1.1	1.2	0.72	
1000	± 20 %	100	1.8	1.0	0.56	

Notes

Inductance drop = 10 % typ. at I<sub>SAT</sub>

 $\Delta T = 40$  °C typ. at I<sub>RMS</sub>

DIMENSIONS in inches [millimeters]												
⊢ B Max. ↓	A Max.		D Ma					H				
A (Max.)	B (Max.)	D (Max.)	E	F	G	н	I	J				
0.730 [18.54]	0.600 [15.24]	0.280 [7.11]	0.100 [2.54]	0.100 [2.54]	0.500 [12.70]	0.115 [2.92]	0.490 [12.45]	0.110 [2.79]				
DESCRIPTION												
IDC-7328 MODEL		<b>10 μΗ</b> ANCE VALUE		<b>0 %</b> E TOLERANCE	<b>ER</b> PACKAGE C	ODE JEDEC <sup>©</sup>	<b>e3</b> ® LEAD (Pb)-FR	EE STANDARD				
GLOBAL PART NUMBER												
	D C RODUCT FAMILY	7	3 2 SIZE		ACKAGE CODE	1 0 INDUCTA VALU		M TOL.				
Revision: 21-Ap	Revision: 21-Apr-17 1 Document Number						Number: 34008					
For technical questions, contact: magnetics@vishav.com												

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