### IDC-7328



Vishay Dale

# High Current, Surface Mount Inductors - Non-Shielded



#### **ELECTRICAL SPECIFICATIONS**

Inductance Range: 1.0  $\mu H$  to 1000  $\mu H,$  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

#### FEATURES

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



of COMPLIANT e HALOGEN

### **MECHANICAL SPECIFICATIONS**

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

INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	<b>DCR MAX. (</b> Ω)	I <sub>SAT</sub> (A)	I <sub>RMS</sub> (A)	
1.0	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

Г

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

•  $\Delta T = 40 \,^{\circ}\text{C}$  typ. at I<sub>RMS</sub>

DIMENSIONS in inches [millimeters]												
A Max B Max.		↓ D Ma					H H					
A B (Max.) (Max	D .) (Max.)	E	F	G	н	I	J					
0.730 0.60 [18.54] [15.2		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 IN	10 μH DUCTANCE VALUE		<b>0 %</b> TOLERANCE	<b>ER</b> PACKAGE C		<b>e3</b> ® LEAD (Pb)-FR	EE STANDARD					
GLOBAL PART NUMBER												
I D PRODUCT FAMILY	C 7	3 2 SIZE		ACKAGE CODE	10 INDUCTA VALU		M JOL.					
Revision: 21-Apr-17	evision: 21-Apr-17 <b>1</b> Document Number: 340 For technical guestions, contact: <u>magnetics@vishay.com</u>											
A B   (Max.) (Max   0.730 0.60   [15.2] [15.2]   DESCRIPTION IDC-7328   MODEL IN   GLOBAL PART N PRODUCT   FAMILY PRODUCT	.) (Max.) 0 0.280 4] [7.11] IDUCTANCE VALUE IUMBER C 7	0.100 [2.54] ± 20 INDUCTANCE 3 2 [ SIZE	0.100 [2.54] 0 % E TOLERANCE 8 [ P P	G 0.500 [12.70] ER PACKAGE C E R ACKAGE CODE	0.115 [2.92] ODE JEDEC <sup>0</sup> 1 0 INDUCTA VALU	[12.45] e3 <sup>®</sup> LEAD (Pb)-FR 0 NOCE	0.110 [2.79] EE STANDAF					

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