

Vishay Dale

High Current, Surface Mount Inductors - Shielded





FEATURES

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

 Material categorization: for definitions of compliance please see www.vishay.com/doc?99912



RoHS COMPLIANT

HALOGEN FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μH to 1000 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

MECHANICAL SPECIFICATIONS

Core: ferrite

Wire: enamelled copper wire

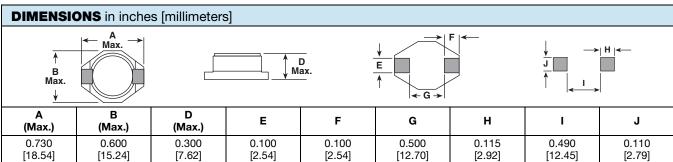
Base: LCP

Terminals: nickel bronze **Adhesive:** epoxy resin

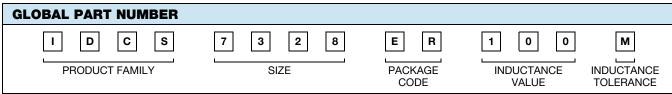
STANDARD ELECTRICAL SPECIFICATIONS							
INDUCTANCE (µH)	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. (Ω)	I _{SAT} (A)	I _{RMS} (A)		
10	± 20 %	100	0.040	8.0	3.9		
15	± 20 %	100	0.048	7.0	3.4		
22	± 20 %	100	0.059	6.0	3.1		
33	± 20 %	100	0.075	5.0	2.8		
47	± 20 %	100	0.097	4.0	2.4		
68	± 20 %	100	0.138	3.0	2.0		
100	± 20 %	100	0.207	2.4	1.7		
150	± 20 %	100	0.293	2.1	1.3		
220	± 20 %	100	0.47	1.9	1.1		
330	± 20 %	100	0.78	1.1	0.86		
470	± 20 %	100	1.08	1.1	0.73		
680	± 20 %	100	1.40	0.96	0.64		
1000	± 20 %	100	2.01	0.80	0.53		

Notes

- Inductance drop = 10 % typ. at I_{SAT}
- $\Delta T = 40 \,^{\circ}\text{C}$ typ. at I_{RMS}



DESCRIPTION								
IDCS-7328	10 μH	± 20 %	ER	e3				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD				





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Vishay

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Vishay:

IDCS7328NB220M	IDCS7328ER100M	IDCS7328ER101M	IDCS7328ER102M	IDCS7328ER150M
IDCS7328ER220M	IDCS7328ER330M	IDCS7328ER331M	IDCS7328ER470M	IDCS7328ER681M
IDCS7328NB330M	IDCS7328NB331M	IDCS7328NB150M	IDCS7328NB100M	IDCS7328NB102M
IDCS7328NB101M	IDCS7328NB681M	IDCS7328NB680M	IDCS7328NB470M	IDCS7328ER680M