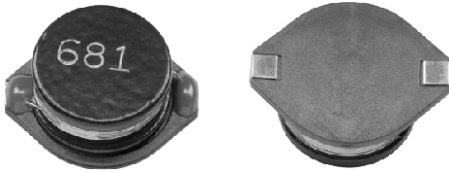


# High Current, Surface Mount Inductors - Non-Shielded



## 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](http://www.vishay.com/doc?99912)



**RoHS**  
COMPLIANT  
HALOGEN  
**FREE**

## ELECTRICAL SPECIFICATIONS

**Inductance Range:** 1.0  $\mu\text{H}$  to 1000  $\mu\text{H}$ , tested at 0.1  $V_{\text{RMS}}$   
**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 ( $\mu\text{H}$ )	TOLERANCE	TEST FREQUENCY L (kHz)	DCR MAX. ( $\Omega$ )	$I_{\text{SAT}}$ (A)	$I_{\text{RMS}}$ (A)
1.0	$\pm 20\%$	100	0.009	20.0	8.6
2.2	$\pm 20\%$	100	0.014	16.0	7.1
3.3	$\pm 20\%$	100	0.018	14.0	6.2
5.6	$\pm 20\%$	100	0.020	12.0	5.3
10	$\pm 20\%$	100	0.031	10.0	4.3
15	$\pm 20\%$	100	0.036	8.0	4.0
22	$\pm 20\%$	100	0.047	7.0	3.5
33	$\pm 20\%$	100	0.066	5.5	3.0
47	$\pm 20\%$	100	0.086	4.5	2.6
68	$\pm 20\%$	100	0.13	3.5	2.3
100	$\pm 20\%$	100	0.19	3.0	1.8
150	$\pm 20\%$	100	0.25	2.6	1.5
220	$\pm 20\%$	100	0.38	2.4	1.2
330	$\pm 20\%$	100	0.56	1.9	1.0
470	$\pm 20\%$	100	0.85	1.4	0.82
680	$\pm 20\%$	100	1.1	1.2	0.72
1000	$\pm 20\%$	100	1.8	1.0	0.56

### Notes

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

DIMENSIONS in inches [millimeters]								
A (Max.)	B (Max.)	D (Max.)	E	F	G	H	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				
<b>IDC-7328</b>	<b>10 <math>\mu\text{H}</math></b>	<b><math>\pm 20\%</math></b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER												
I	D	C	7	3	2	8	E	R	1	0	0	M
PRODUCT FAMILY			SIZE				PACKAGE CODE		INDUCTANCE VALUE			TOL.



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