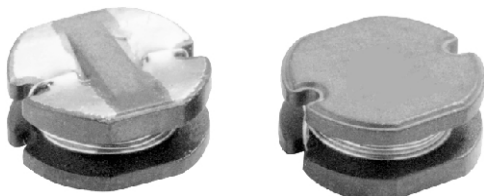


High Current, Surface Mount Inductors - Non-Shielded



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



RoHS
COMPLIANT
HALOGEN
FREE

ELECTRICAL SPECIFICATIONS

Inductance Range: 10 μ H to 820 μ H

Inductance Tolerance: 20 %

Operating Temperature: - 25 °C to + 105 °C

Storage Temperature: - 40 °C to + 125 °C

Resistance to Solder Heat: 260 °C for 10 s

MATERIALS

Core: Ferrite

Wire: Enamelled copper wire

Terminals: Ni and Sn/Ag/Cu

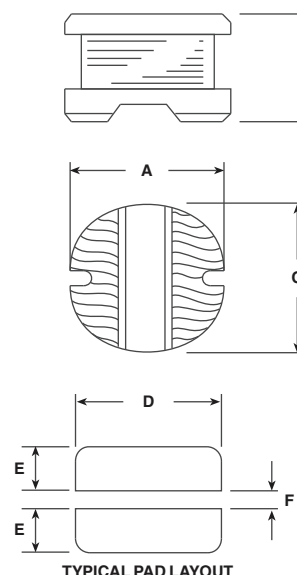
STANDARD ELECTRICAL SPECIFICATIONS

INDUCTANCE (μ H)	TEST FREQUENCY L	DCR MAX. (Ω)	RATED DC CURRENT (A) ⁽¹⁾
10.0	2.52 MHz	0.06	2.60
12.0	2.52 MHz	0.07	2.45
15.0	2.52 MHz	0.08	2.27
18.0	2.52 MHz	0.09	2.15
22.0	2.52 MHz	0.10	1.95
27.0	2.52 MHz	0.11	1.76
33.0	2.52 MHz	0.12	1.50
39.0	2.52 MHz	0.14	1.37
47.0	2.52 MHz	0.17	1.28
56.0	2.52 MHz	0.19	1.17
68.0	2.52 MHz	0.22	1.11
82.0	2.52 MHz	0.25	1.00
100.0	1 kHz	0.35	0.97
120.0	1 kHz	0.40	0.89
150.0	1 kHz	0.47	0.78
180.0	1 kHz	0.63	0.72
220.0	1 kHz	0.73	0.66
270.0	1 kHz	0.97	0.57
330.0	1 kHz	1.15	0.52
390.0	1 kHz	1.30	0.48
470.0	1 kHz	1.48	0.42
560.0	1 kHz	1.90	0.33
680.0	1 kHz	2.25	0.28
820.0	1 kHz	2.55	0.24

Note

⁽¹⁾ Rated Current: Value obtained when current flows and the temperature has risen 40 °C or when DC current flows and the initial value of inductance has fallen by 10 %, whichever is smaller.

DIMENSIONS in inches [millimeters]



TYPICAL PAD LAYOUT

A	B	C
0.394 $\pm$ 0.02 [10.0 $\pm$ 0.4]	0.213 $\pm$ 0.02 [5.4 $\pm$ 0.4]	0.355 $\pm$ 0.02 [9.0 $\pm$ 0.4]
D	E	F
0.374 [9.5]	0.148 [3.75]	0.099 [2.5]

DESCRIPTION

IDCP-3722	10 μH	$\pm$ 20 %	ER	e1
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I	D	C	P	3	7	2	2	E	R	1	0	0	M
PRODUCT FAMILY				SIZE				PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE



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Please note that some Vishay documentation may still make reference to RoHS Directive 2002/95/EC. We confirm that all the products identified as being compliant to Directive 2002/95/EC conform to Directive 2011/65/EU.

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