

**IDCP-3722**

Vishay Dale

High Current, Surface Mount Inductor



ELECTRICAL SPECIFICATIONS

Inductance Range: 10.0μH to 820μH.

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 seconds.

STANDARD ELECTRICAL SPECIFICATIONS

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

*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.

FEATURES

- High energy storage.
- Low resistance.
- Tape and reel packaging for automatic handling.
- 100 % Lead (Pb)-free and RoHS compliant.


RoHS
COMPLIANT

MATERIALS

Core: Ferrite.

Wire: Enamelled copper wire.

Terminal: Ni + Sn/Ag/Cu.

DIMENSIONS in inches [millimeters]

TYPICAL PAD LAYOUT		
A	B	C
0.394 ± 0.02 [10.0 ± 0.4]	0.213 ± 0.02 [5.4 ± 0.4]	0.355 ± 0.02 [9.0 ± 0.4]
D	E	F
0.374 [9.5]	0.148 [3.75]	0.099 [2.5]

DESCRIPTION

IDCP-3722	10μH	± 20%	ER	e1
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD FREE STANDARD

GLOBAL PART NUMBER

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