

IDCP-2218

Vishay Dale



High Current, Surface Mount Inductor



ELECTRICAL SPECIFICATIONS

Inductance Range: 10μH to 220μH.

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.

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.

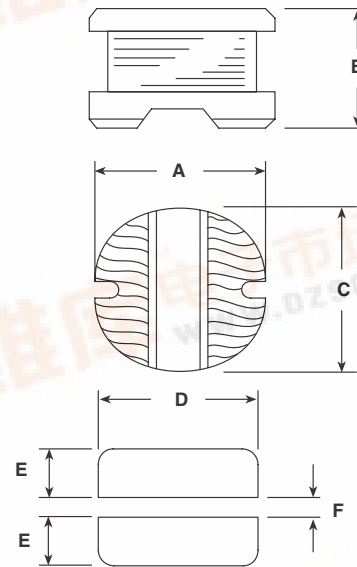
Wire: Enamelled copper wire.

Terminal: Ni + Sn/Ag/Cu.

STANDARD ELECTRICAL SPECIFICATIONS			
INDUCTANCE (μH)	TEST FREQUENCY L	DCR MAXIMUM (Ohms)	RATED DC CURRENT* (A)
10.0	2.52MHz	0.10	1.44
12.0	2.52MHz	0.12	1.40
15.0	2.52MHz	0.14	1.30
18.0	2.52MHz	0.15	1.23
22.0	2.52MHz	0.18	1.11
27.0	2.52MHz	0.20	0.97
33.0	2.52MHz	0.23	0.88
39.0	2.52MHz	0.32	0.80
47.0	2.52MHz	0.37	0.72
56.0	2.52MHz	0.42	0.68
68.0	2.52MHz	0.46	0.61
82.0	2.52MHz	0.60	0.58
100.0	1KHz	0.70	0.52
120.0	1KHz	0.93	0.48
150.0	1KHz	1.10	0.40
180.0	1KHz	1.38	0.38
220.0	1KHz	1.57	0.35

*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
0.229 ± 0.01 [5.8 ± 0.3]	0.177 ± 0.01 [4.5 ± 0.35]	0.205 ± 0.01 [5.2 ± 0.3]
D	E	F
0.217 [5.5]	0.085 [2.15]	0.067 [1.7]

DESCRIPTION

IDCP-2218	10μH	± 20%	ER	e1
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD FREE STANDARD

GLOBAL PART NUMBER

I	D	C	P	2	2	1	8	E	R	1	0	0	M
MODEL				SIZE				PACKAGE CODE		INDUCTANCE VALUE			INDUCTANCE TOLERANCE



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