

High Current, Surface Mount Inductor



FEATURES

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



RoHS
COMPLIANT

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.

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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