

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: 10 μ H to 220 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 seconds

MATERIALS

Core: Ferrite

Wire: Enamelled copper wire

Terminal: Ni + Sn/Ag/Cu

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

A	B	C
0.229 \pm 0.01 [5.8 \pm 0.3]	0.177 \pm 0.01 [4.5 \pm 0.35]	0.205 \pm 0.01 [5.2 \pm 0.3]
D	E	F
0.217 [5.5]	0.085 [2.15]	0.067 [1.7]

DESCRIPTION

IDCP-2218	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	2 2 1 8	E R	1 0 0	M
MODEL	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE



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