

**IDCP-2218**

Vishay Dale

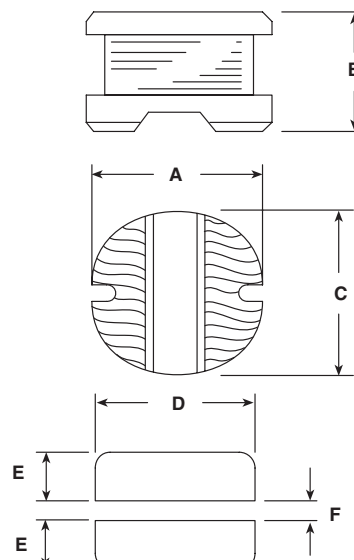
**High Current, Surface Mount Inductor****FEATURES**

- 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 $\mu$ H to 220 $\mu$ 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 ( $\mu$ H)	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**

<b>IDCP-2218</b>	<b>10<math>\mu</math>H</b>	<b>± 20%</b>	<b>ER</b>	<b>e1</b>
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



## Notice

Specifications of the products displayed herein are subject to change without notice. Vishay Intertechnology, Inc., or anyone on its behalf, assumes no responsibility or liability for any errors or inaccuracies.

Information contained herein is intended to provide a product description only. No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document. Except as provided in Vishay's terms and conditions of sale for such products, Vishay assumes no liability whatsoever, and disclaims any express or implied warranty, relating to sale and/or use of Vishay products including liability or warranties relating to fitness for a particular purpose, merchantability, or infringement of any patent, copyright, or other intellectual property right.

The products shown herein are not designed for use in medical, life-saving, or life-sustaining applications. Customers using or selling these products for use in such applications do so at their own risk and agree to fully indemnify Vishay for any damages resulting from such improper use or sale.