# Vishay Dale

# **High Current, Surface Mount Inductor**







### **FEATURES**

• High energy storage.





ROHS

· Tape and reel packaging for automatic handling.

• 100 % Lead (Pb)-free and 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.

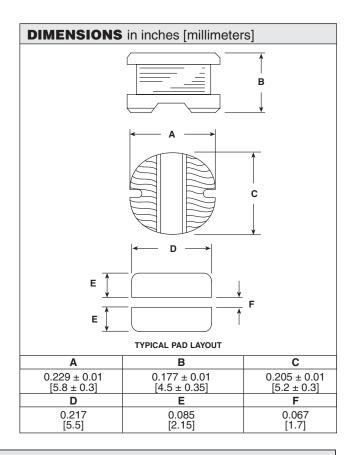
#### STANDARD ELECTRICAL SPECIFICATIONS RATED **TEST** DCR DC INDUCTANCE **MAXIMUM CURRENT\* FREQUENCY** (µH) (Ohms) (A) 10.0 2.52MHz 0.10 1.44 12.0 2.52MHz 0.12 1.40 15.0 2.52MHz 0.14 1.30 1.23 2.52MHz 18.0 0.15 22.0 2.52MHz 0.18 1.11 27.0 2.52MHz 0.20 0.97 33.0 2.52MHz 0.23 0.88 39.0 2.52MHz 0.32 0.80 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 1KHz 0.40 150.0 1.10 180.0 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.

### **MATERIALS**

Core: Ferrite.

**Wire:** Enamelled copper wire. **Terminal:** Ni + Sn/Ag/Cu.



DESCRIPTION					
IDCP-2218	10μΗ	± 20%	ER	e1	
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC LEAD FF STANDARD	
GLOBAL PART NUMBER					
I D C MODEL	P 2 2 1 SIZE			0 0 M  JCTANCE INDUCTA ALUE TOLERA	

# **Legal Disclaimer Notice**



Vishay

# **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.

www.vishay.com Revision: 08-Apr-05