IDCP-3114



Vishay Dale

RoHS

FREE

High Current, Surface Mount Inductors - Non-Shielded



ELECTRICAL SPECIFICATIONS

Inductance Range: 10 µH to 330 µH Inductance Tolerance: 20 % Operating Temperature: -40 °C to +125 °C (temperature rise included)

Storage Temperature: -40 °C to +125 °C Resistance to Solder Heat: 260 °C for 10 s

STANDARD ELECTRICAL SPECIFICATIONS RATED DC TEST INDUCTANCE DCR MAX. CURRENT FREQUENCY (µH) (Ω) (A) ⁽¹⁾ 10.0 2.52 MHz 0.08 1.44 12.0 2.52 MHz 0.09 1.39 15.0 2.52 MHz 0.10 1.24 18.0 2.52 MHz 0.11 1.12 22.0 2.52 MHz 0.13 1.07 27.0 2.52 MHz 0.15 0.94 33.0 2.52 MHz 0.17 0.85 39.0 2.52 MHz 0.22 0.74 47.0 0.25 2.52 MHz 0.68 56.0 2.52 MHz 0.28 0.64 68.0 0.33 0.59 2.52 MHz 82.0 0.41 0.54 2.52 MHz 100.0 0.48 1 kHz 0.51 120.0 0.54 0.49 1 kHz 150.0 1 kHz 0.75 0.40 180.0 1 kHz 1.02 0.36 220.0 1 kHz 1.20 0.31 270.0 1 kHz 1.31 0.29 330.0 1 kHz 1.50 0.28

Note

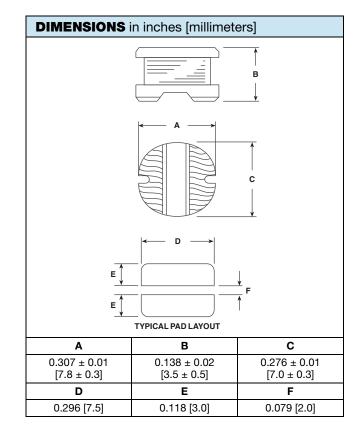
(1) Rated Current: Value obtained when current flows and the temperature has risen 40 °C or when DC current flows and the initial value of inductance has fallen by 10 %, whichever is smaller

FEATURES

- High energy storage
- Low resistance
- Tape and reel packaging for automatic handling
- Material categorization: COMPLIANT HALOGEN for definitions of compliance please see www.vishay.com/doc?99912

MATERIALS

Core: ferrite Wire: enamelled copper wire Terminals: Ni and Sn / Ag / Cu



DESCRIPTION					
IDCP-3114	10 µH	± 20 %	ER	e.	1
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC [®] LEAD (Pb)	FREE STANDARD
GLOBAL PART NUMBER					
I D	СР	3 1 1 4	ER	1 0 0	Μ
PRODUC	T FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE
Bevision: 20-Jun-17		1		Docum	ent Number: 34091
Revision: 20-Jun-17 1 Docume				ent Number: 3409 ⁻	

DESCRIPTION

For technical questions, contact: magnetics@vishay.com

THIS DOCUMENT IS SUBJECT TO CHANGE WITHOUT NOTICE. THE PRODUCTS DESCRIBED HEREIN AND THIS DOCUMENT ARE SUBJECT TO SPECIFIC DISCLAIMERS, SET FORTH AT www.vishav.com/doc?91000



Vishay

Disclaimer

ALL PRODUCT, PRODUCT SPECIFICATIONS AND DATA ARE SUBJECT TO CHANGE WITHOUT NOTICE TO IMPROVE RELIABILITY, FUNCTION OR DESIGN OR OTHERWISE.

Vishay Intertechnology, Inc., its affiliates, agents, and employees, and all persons acting on its or their behalf (collectively, "Vishay"), disclaim any and all liability for any errors, inaccuracies or incompleteness contained in any datasheet or in any other disclosure relating to any product.

Vishay makes no warranty, representation or guarantee regarding the suitability of the products for any particular purpose or the continuing production of any product. To the maximum extent permitted by applicable law, Vishay disclaims (i) any and all liability arising out of the application or use of any product, (ii) any and all liability, including without limitation special, consequential or incidental damages, and (iii) any and all implied warranties, including warranties of fitness for particular purpose, non-infringement and merchantability.

Statements regarding the suitability of products for certain types of applications are based on Vishay's knowledge of typical requirements that are often placed on Vishay products in generic applications. Such statements are not binding statements about the suitability of products for a particular application. It is the customer's responsibility to validate that a particular product with the properties described in the product specification is suitable for use in a particular application. Parameters provided in datasheets and / or specifications may vary in different applications and performance may vary over time. All operating parameters, including typical parameters, must be validated for each customer application by the customer's technical experts. Product specifications do not expand or otherwise modify Vishay's terms and conditions of purchase, including but not limited to the warranty expressed therein.

Except as expressly indicated in writing, Vishay products are not designed for use in medical, life-saving, or life-sustaining applications or for any other application in which the failure of the Vishay product could result in personal injury or death. Customers using or selling Vishay products not expressly indicated for use in such applications do so at their own risk. Please contact authorized Vishay personnel to obtain written terms and conditions regarding products designed for such applications.

No license, express or implied, by estoppel or otherwise, to any intellectual property rights is granted by this document or by any conduct of Vishay. Product names and markings noted herein may be trademarks of their respective owners.