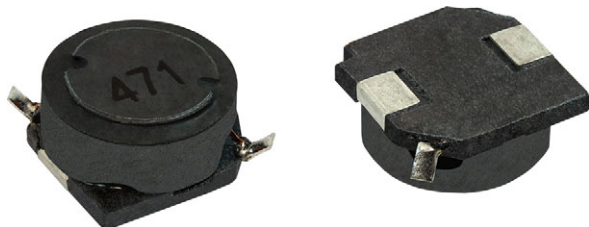


Ferrite Power Inductor, Shielded Drumcore



FEATURES

- 7.6 mm x 7.6 mm x 3.5 mm size
- Shielded, assembled ferrite construction
- Inductance range 3.3 μ H to 470 μ H
- Material categorization:
for definitions of compliance please see
www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

APPLICATIONS

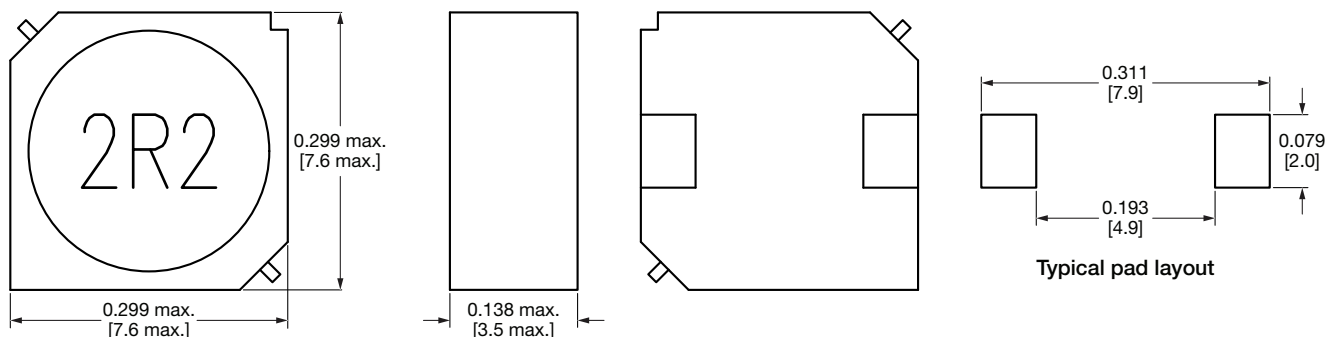
- DC/DC power supplies
- Noise suppression and filtering

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L ₀ INDUCTANCE (μ H)	INDUCTANCE TOLERANCE (%)	DCR MAX. (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾
IDCS3014ER3R3N	3.3	30	28	1.90
IDCS3014ER4R7N	4.7	30	43	1.70
IDCS3014ER6R8N	6.8	30	49	1.60
IDCS3014ER8R2N	8.2	30	59	1.50
IDCS3014ER100M	10	20	64	1.40
IDCS3014ER150M	15	20	90	1.10
IDCS3014ER220M	22	20	132	0.96
IDCS3014ER330M	33	20	192	0.75
IDCS3014ER470M	47	20	288	0.67
IDCS3014ER680M	68	20	372	0.59
IDCS3014ER820M	82	20	455	0.52
IDCS3014ER101M	100	20	540	0.60
IDCS3014ER151M	150	20	780	0.37
IDCS3014ER221M	220	20	1260	0.29
IDCS3014ER331M	330	20	2004	0.33
IDCS3014ER471M	470	20	2460	0.20

Notes

- All test data is referenced to 25 °C ambient
 - Operating temperature is -40 °C to +105 °C
 - Test condition: 100 kHz, 0.3 V for 8.2 μ H and below, and 1 kHz, 0.3 V for 10 μ H and above
 - Storage condition: -40 °C to +105 °C (on board); and -10 °C to +40 °C and < 70 % RH (in component packaging)
 - Resistance to solder heat: 255 °C for 10 s (2 times max. through reflow)
- ⁽¹⁾ DC current (A) that will cause an approximate Δ T of 40 °C or cause L₀ to drop by 25 %, whichever is lower

DIMENSIONS in inches [millimeters]

DESCRIPTION

IDCS3014	2.2 μH	± 30 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I D C S	3 0 1 4	E R	2 R 2	N
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE
		ER = tape and reel	2R2 = 2.2 μ H	M = ± 20 % N = ± 30 %



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.

Hyperlinks included in this datasheet may direct users to third-party websites. These links are provided as a convenience and for informational purposes only. Inclusion of these hyperlinks does not constitute an endorsement or an approval by Vishay of any of the products, services or opinions of the corporation, organization or individual associated with the third-party website. Vishay disclaims any and all liability and bears no responsibility for the accuracy, legality or content of the third-party website or for that of subsequent links.

Vishay products are not designed for use in life-saving or life-sustaining applications or any application in which the failure of the Vishay product could result in personal injury or death unless specifically qualified in writing by Vishay. 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.