

Ferrite Power Inductor, Shielded Drum Core



FEATURES

- 6.0 mm x 6.0 mm x 3.0 mm max. SMD package
- Shielded drum core ferrite construction to reduce leakage flux
- Low profile inductors from 2.2 μ H to 330 μ H
- Material categorization:
for definitions of compliance please see www.vishay.com/doc?99912



RoHS
COMPLIANT
HALOGEN
FREE
GREEN
(5-2008)

LINKS TO ADDITIONAL RESOURCES


[Product Page](#)

ELECTRICAL SPECIFICATIONS

Operating temperature:

-40 °C to +105 °C (temperature rise included)

Resistance to solder heat:

255 °C for 10 s (2 times max. through reflow)

APPLICATIONS

- DC/DC power supplies
- Noise suppression and filtering

STANDARD ELECTRICAL SPECIFICATIONS

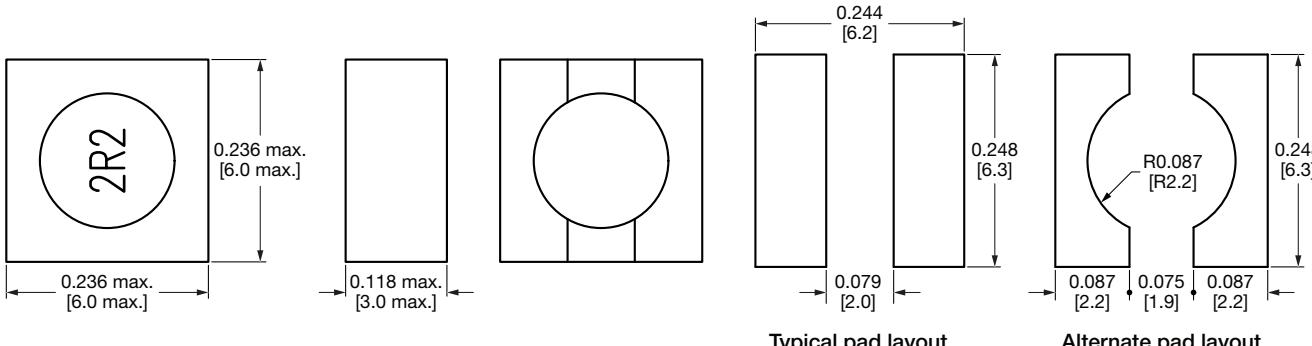
PART NUMBER	L ₀ INDUCTANCE (μ H)	INDUCTANCE TOLERANCE (%)	DCR MAX. (m Ω)	HEAT RATING CURRENT DC TYP. (A) ⁽¹⁾	SATURATION CURRENT DC TYP. (A) ⁽²⁾
IFDC2020CZER2R2N	2.2	30	17	2.60	2.60
IFDC2020CZER3R3N	3.3	30	29	2.40	2.40
IFDC2020CZER4R7N	4.7	30	39	2.10	2.10
IFDC2020CZER6R8N	6.8	30	48	1.85	1.85
IFDC2020CZER8R2N	8.2	30	57	1.58	1.58
IFDC2020CZER100M	10	20	65	1.30	1.30
IFDC2020CZER120M	12	20	76	1.20	1.20
IFDC2020CZER150M	15	20	95	1.10	1.10
IFDC2020CZER180M	18	20	110	1.00	1.00
IFDC2020CZER220M	22	20	122	0.90	0.90
IFDC2020CZER330M	33	20	189	0.75	0.75
IFDC2020CZER470M	47	20	250	0.62	0.62
IFDC2020CZER560M	56	20	305	0.58	0.58
IFDC2020CZER680M	68	20	355	0.52	0.52
IFDC2020CZER820M	82	20	463	0.46	0.46
IFDC2020CZER101M	100	20	520	0.42	0.42
IFDC2020CZER121M	120	20	560	0.40	0.40
IFDC2020CZER151M	150	20	680	0.35	0.35
IFDC2020CZER181M	180	20	930	0.32	0.32
IFDC2020CZER221M	220	20	1150	0.30	0.30
IFDC2020CZER271M	270	20	1560	0.27	0.27
IFDC2020CZER331M	330	20	1980	0.25	0.25

Notes

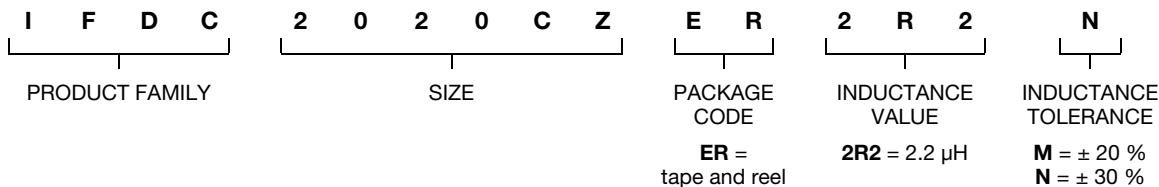
- All test data is referenced to 25 °C ambient
- Test condition: 100 kHz, 0.3 V for 8.2 μ H and below, and 1 kHz, 0.3 V for 10 μ H and above
- Storage condition: -40 °C to +105 °C (on board); and -10 °C to +40 °C and < 70 % RH (in component packaging)

⁽¹⁾ DC current (A) that will result in ΔT no greater than 40 °C

⁽²⁾ DC current (A) that will result in L₀ drop no greater than 35 %

DIMENSIONS in inches [millimeters]

DESCRIPTION

IFDC2020CZ	2.2 μ H	± 30 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER


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.