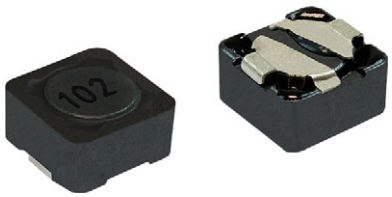
Ferrite Power Inductor, Shielded Drum Core



FEATURES

- 7.8 mm x 7.8 mm x 5.0 mm max. SMD package
- Shielded drum core ferrite construction to reduce leakage flux
- Inductance range: 1.0 µH to 470 µH
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free
RoHS COMPLIANT
HALOGEN FREE GREEN (5-2008)

LINKS TO ADDITIONAL RESOURCES

Product Page

APPLICATIONS

- DC/DC power supplies
- Noise suppression and filtering

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)

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L_0 INDUCTANCE (µH)	INDUCTANCE TOLERANCE (%)	DCR MAX. (mΩ)	HEAT RATING CURRENT DC TYP. (A) (1)	SATURATION CURRENT DC TYP. (A) (2)
IFDC3030EZER1R0N	1.0	30	13	9.00	9.00
IFDC3030EZER1R5N	1.5	30	14.5	7.60	7.60
IFDC3030EZER2R2M	2.2	20	18	6.50	6.50
IFDC3030EZER3R3M	3.3	20	24	5.60	5.60
IFDC3030EZER3R6M	3.6	20	26	5.00	5.00
IFDC3030EZER4R7M	4.7	20	30	4.40	4.40
IFDC3030EZER6R8M	6.8	20	41	3.00	3.00
IFDC3030EZER8R2M	8.2	20	48	2.90	2.90
IFDC3030EZER100M	10	20	49	1.84	1.84
IFDC3030EZER120M	12	20	58	1.71	1.71
IFDC3030EZER150M	15	20	81	1.47	1.47
IFDC3030EZER180M	18	20	91	1.31	1.31
IFDC3030EZER220M	22	20	110	1.23	1.23
IFDC3030EZER270M	27	20	150	1.12	1.12
IFDC3030EZER330M	33	20	170	0.96	0.96
IFDC3030EZER390M	39	20	230	0.91	0.91
IFDC3030EZER470M	47	20	260	0.88	0.88
IFDC3030EZER560M	56	20	350	0.75	0.75
IFDC3030EZER680M	68	20	380	0.69	0.69
IFDC3030EZER101M	100	20	610	0.60	0.60
IFDC3030EZER121M	120	20	660	0.52	0.52
IFDC3030EZER151M	150	20	880	0.46	0.46
IFDC3030EZER181M	180	20	980	0.42	0.42
IFDC3030EZER221M	220	20	1170	0.36	0.36
IFDC3030EZER271M	270	20	1640	0.34	0.34
IFDC3030EZER331M	330	20	1860	0.32	0.32
IFDC3030EZER391M	390	20	2850	0.29	0.29
IFDC3030EZER471M	470	20	3010	0.36	0.36

Notes

- All test data is referenced to 25 °C ambient
- Test condition: 100 kHz, 0.3 V for 8.2 µH and below, and 1 kHz, 0.3 V for 10 µH 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 L_0 drop no greater than 35 %

For technical questions, contact: magnetics@vishay.com

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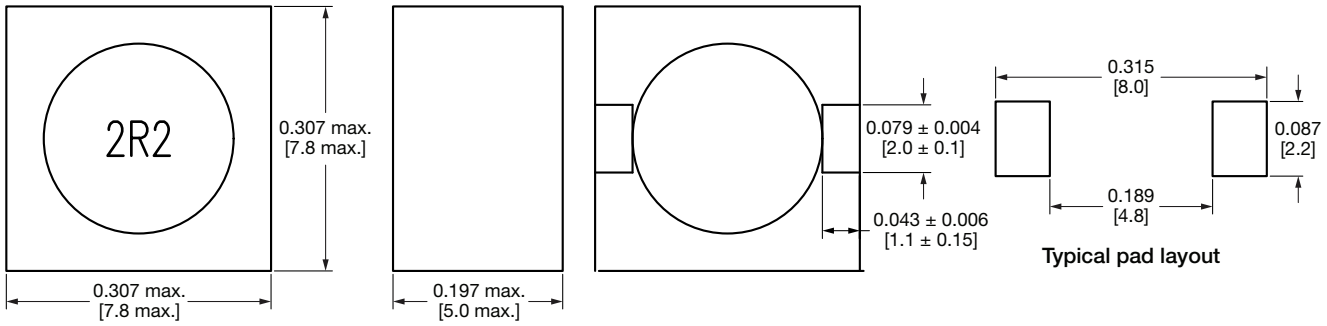
DIMENSIONS in inches [millimeters]



DESCRIPTION

IFDC3030EZ	2.2 µH	± 20 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I F D C	3 0 3 0 E Z	E R	2 R 2	M
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE
		ER = tape and reel	**2R2** = 2.2 µH	**M** = ± 20 % **N** = ± 30 %

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