Semi-Shielded SMD Power Inductors



FEATURES

- 5.0 mm x 5.0 mm x 2.0 mm max. SMD package
- Semi-shielded ferrite construction
- Low profile, compact, efficient design
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE GREEN (5-2008)

APPLICATIONS

- DC/DC power supplies
- Noise suppression and filtering
- Portable and hand held devices
- HDD and SSD storage

STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L_0 INDUCTANCE (µH)	INDUCTANCE TOLERANCE (%)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. I_{DC} (A) (1)	SATURATION CURRENT DC TYP. I_{SAT} (A) (2)	SRF MIN. (MHz)
IFSC2020BZER2R2M01	2.2	20.0	30	36	2.6	4.5	55
IFSC2020BZER100M01	10	20.0	106	127	1.2	2	25

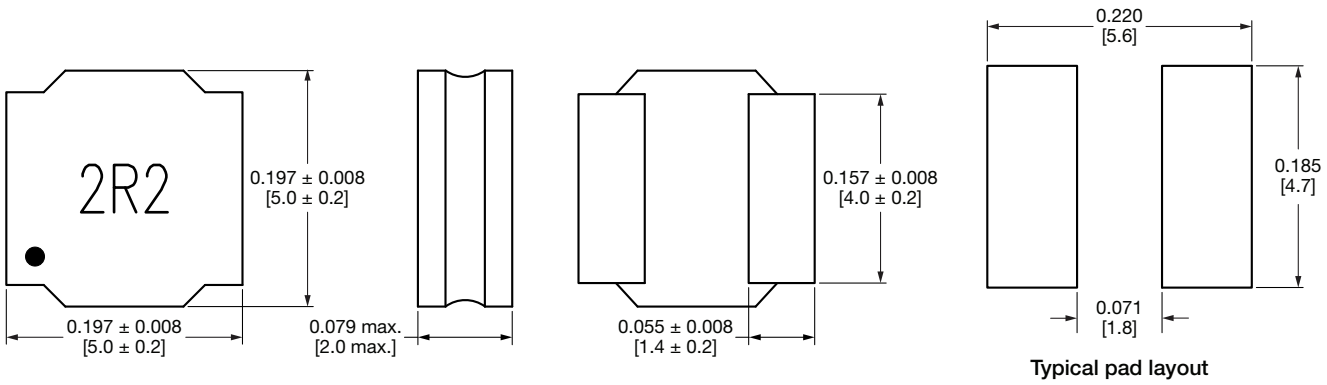
Notes

- All test data is referenced to 25 °C ambient
- Test condition: 1 MHz, 1 V
- Operating temperature range -40 °C to +125 °C

(1) DC current (A) that will cause an approximate ΔT of 40 °C

(2) DC current (A) that will cause L_0 to drop approximately 30 %

DIMENSIONS in inches [millimeters]



Typical pad layout

For technical questions, contact: magnetics@vishay.com

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DESCRIPTION

IFSC-2020BZ-01	2.2 µH	± 30 %	ER	e3
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

GLOBAL PART NUMBER

I F S C	2 0 2 0 B Z	E R	2 R 2	M	0 1
PRODUCT FAMILY	SIZE	PACKAGE CODE **ER** = tape and reel	INDUCTANCE VALUE **2R2** = 2.2 µH	INDUCTANCE TOLERANCE **M** = ± 20 % **N** = ± 30 %	SERIES

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