

## 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](http://www.vishay.com/doc?99912)



**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

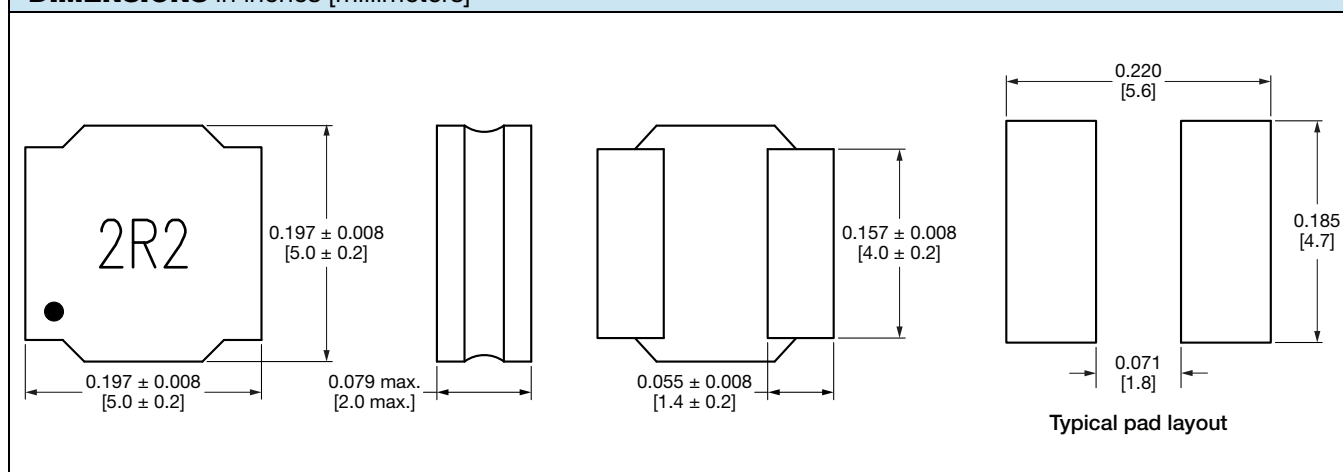
### STANDARD ELECTRICAL SPECIFICATIONS

PART NUMBER	L <sub>0</sub> INDUCTANCE (μH)	INDUCTANCE TOLERANCE (%)	DCR TYP. 25 °C (mΩ)	DCR MAX. 25 °C (mΩ)	HEAT RATING CURRENT DC TYP. I <sub>DC</sub> (A) <sup>(1)</sup>	SATURATION CURRENT DC TYP. I <sub>SAT</sub> (A) <sup>(2)</sup>	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<sub>0</sub> to drop approximately 30 %

### DIMENSIONS in inches [millimeters]





**DESCRIPTION**

<b>IFSC-2020BZ-01</b>	<b>2.2 <math>\mu</math>H</b>	<b><math>\pm 30\%</math></b>	<b>ER</b>	<b>e3</b>
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD

**GLOBAL PART NUMBER**

<b>I F S C</b>	<b>2 0 2 0 B Z</b>	<b>E R</b>	<b>2 R 2</b>	<b>M</b>	<b>0 1</b>
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
		<b>ER</b> = tape and reel	<b>2R2</b> = 2.2 $\mu$ H	<b>M</b> = $\pm 20\%$ <b>N</b> = $\pm 30\%$	



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