Shielded, SMD, Ferrite Power Inductor



FEATURES

- 6.0 mm x 6.0 mm x 4.5 mm max. SMD package
- Wirewound ferrite core encapsulated with iron embedded epoxy for magnetic shielding
- 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
- Industrial and consumer electronics

LINKS TO ADDITIONAL RESOURCES

Product Page

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)
IFSC2020DEER181M02	180	20.0	746	894	0.78	1.12	6

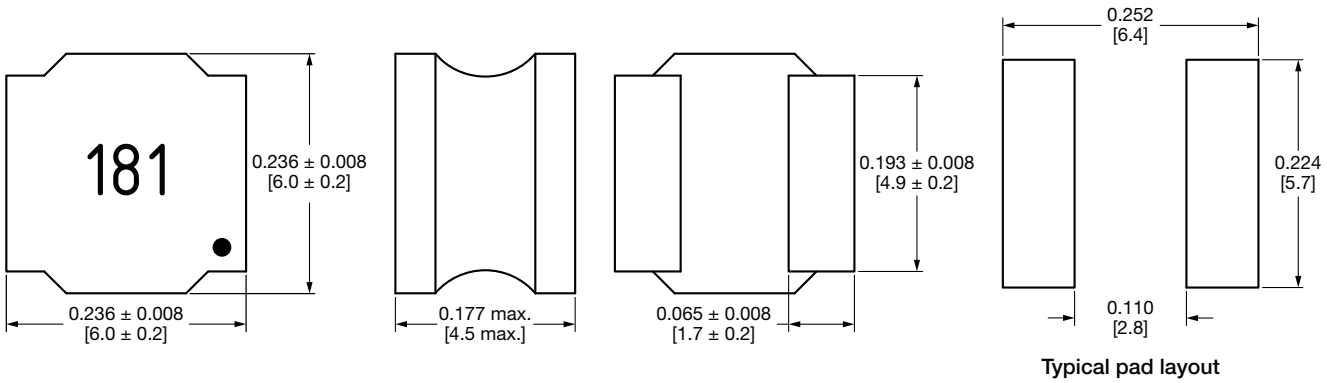
Notes

- All test data is referenced to 25 °C ambient
- Test condition: 1 MHz, 1 V
- Operating temperature range -40 °C to +125 °C
- Storage condition: -40 °C to +125 °C (on board); -10 °C to +40 °C and < 70 % RH (in component packaging)
- Resistance to solder heat: 260 °C for 10 s (3 times max. through reflow)

(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

Note

- Dot marking indicates start lead of winding

For technical questions, contact: magnetics@vishay.com

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DESCRIPTION

IFSC2020DE-02	180 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 D E	E R	1 8 1	M	0 2
PRODUCT FAMILY	SIZE	PACKAGE CODE **ER** = tape and reel	INDUCTANCE VALUE **181** = 180 µH	INDUCTANCE TOLERANCE **M** = ± 20 %	SERIES

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