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Vishay Dale

Shielded, SMD, Ferrite Power Inductor



LINKS TO ADDITIONAL RESOURCES



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



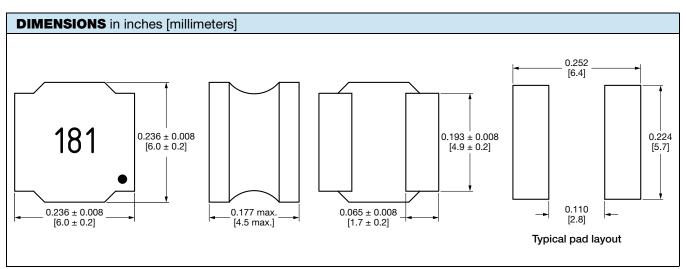
APPLICATIONS

- DC/DC power supplies
- Noise suppression and filtering
- · Portable and hand held devices
- Industrial and consumer electronics

STANDARD ELECTRICAL SPECIFICATIONS									
PART NUMBER	L₀ 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 $^{\circ}C$
- $^{(2)}\,$ DC current (A) that will cause L_0 to drop approximately 30 %



Note

· Dot marking indicates start lead of winding

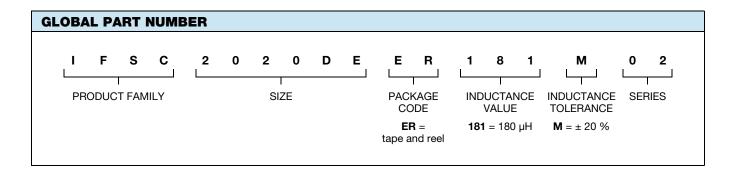




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DESCRIPTION								
IFSC2020DE-02	180 μH	± 30 %	ER	e3				
MODEL	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	PACKAGE CODE	JEDEC® LEAD (Pb)-FREE STANDARD				





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