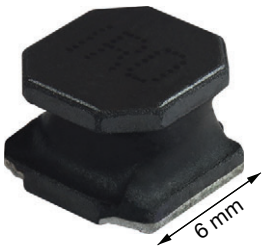
Semi-Shielded SMD Power Inductors



FEATURES

- 6.0 mm x 6.0 mm x 4.5 mm SMD package
- Semi-shielded, wirewound ferrite construction
- Material categorization: for definitions of compliance please see www.vishay.com/doc?99912

Pb-free

RoHS COMPLIANT

HALOGEN FREE

APPLICATIONS

- DC/DC power supplies
- LCD displays
- Noise suppression and filtering
- Lighting drivers
- Battery powered devices

ELECTRICAL SPECIFICATIONS

Operating temperature:

-40 °C to +125 °C (temperature rise included)

Resistance to solder heat:

260 °C for 10 s (3 times max. through reflow)

STANDARD ELECTRICAL SPECIFICATIONS						
PART NUMBER	INDUCTANCE AT 0 A (µH)	IND. TOL. (%)	DCR ± 30 % (mΩ)	HEAT RATING CURRENT DC (A) (1)	SATURATION CURRENT DC (A) (2)	SRF TYP. (MHz)
IFSC2020DEER1R0N01	1.0	30	14	4.2	8.5	110
IFSC2020DEER1R2N01	1.2	30	16	4.0	8.0	100
IFSC2020DEER1R5N01	1.5	30	18	3.7	7.0	65
IFSC2020DEER1R8N01	1.8	30	18	3.7	7.0	60
IFSC2020DEER2R2N01	2.2	30	21	3.5	6.0	52
IFSC2020DEER3R3N01	3.3	30	24	3.2	5.0	32
IFSC2020DEER4R7M01	4.7	20	31	3.0	4.0	24
IFSC2020DEER5R6M01	5.6	20	36	2.9	3.9	23
IFSC2020DEER6R8M01	6.8	20	38	2.8	3.8	14
IFSC2020DEER100M01	10	20	47	2.5	3.0	12
IFSC2020DEER150M01	15	20	77	1.9	2.3	10
IFSC2020DEER220M01	22	20	115	1.5	1.9	7
IFSC2020DEER330M01	33	20	145	1.4	1.5	6
IFSC2020DEER470M01	47	20	220	1.1	1.3	5
IFSC2020DEER560M01	56	20	310	1.0	1.1	4.5
IFSC2020DEER680M01	68	20	330	0.9	1.0	4
IFSC2020DEER820M01	82	20	460	0.8	0.9	3.9
IFSC2020DEER101M01	100	20	500	0.7	0.8	3
IFSC2020DEER121M01	120	20	620	0.7	0.75	3
IFSC2020DEER151M01	150	20	800	0.65	0.7	2.8
IFSC2020DEER181M01	180	20	930	0.6	0.65	2.6
IFSC2020DEER221M01	220	20	1200	0.5	0.6	2.4
IFSC2020DEER331M01	330	20	1800	0.4	0.5	2.2
IFSC2020DEER471M01	470	20	2000	0.35	0.4	2

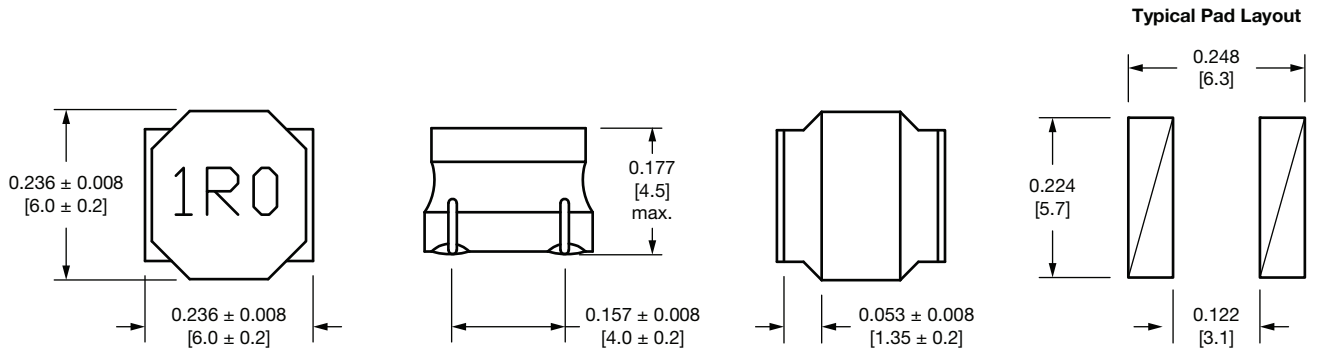
Notes

- All test data is referenced to 25 °C ambient
- Test condition: 100 kHz, 1 V
- Storage condition: -40 °C to +125 °C (on board); less than 40°C and < 60 % RH (in component packaging)

(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]



DESCRIPTION

IFSC-2020DE-01	10 µH	± 20 %	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 0 0	M	0 1
PRODUCT FAMILY	SIZE	PACKAGE CODE	INDUCTANCE VALUE	INDUCTANCE TOLERANCE	SERIES
		ER = tape and reel 1000 pcs/reel	**100** = 10 µH	**M** = ± 20 % **N** = ± 30 %	

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