

02-663F Series From 70nH to 200nH



CHARACTERISTICS

Description: SMD Trans-inductor Voltage Regulator Inductors
Applications: Data centers, Graphic Cards, CPU
Operating Temperature: -40°C to +125°C (including self-temperature rise)
Inductance Test Frequency: 100kHz/1.0V
Irms(A): Heat rated current will cause the coil temperature rise approx. ΔT of 40°C.
Isat 1(A): Saturation current will cause inductance L0 to drop approx. 20% at +25°C.
Isat 2(A): Saturation current will cause inductance L0 to drop approx. 20% at +100°C.
Rated Current: The lower value of Isat and Irms.
Storage Condition (Component in its packaging)
 • Temperature: -10°C to +40°C
 • Humidity: Less than 70% RH
Miscellaneous:
 • All test data referenced to 25°C ambient
 • RoHS Compliant
Samples available. See website for ordering information.

SPECIFICATIONS

Part Number	Inductance (nH) @0A ±15%	DCR (mΩ)		Irms (A) Typ.	Isat 1 (A) Typ.	Isat 2 (A) Typ.	Leakage Inductance (nH) Typ.	Coupling Coefficient Typ.	Dimension B (mm) Max.	Marking
		1-4 ±10%	2-3 Max.							
02-663F-R07L	70	0.125	0.450	70	160	140	17	0.90	6.2	70N
02-663F-R10L	100	0.125	0.450	70	125	105	17	0.91	6.2	R10
02-663F-R105L	105	0.125	0.450	70	120	100	17	0.91	6.0	R105
02-663F-R12L	120	0.125	0.450	70	100	90	17	0.92	6.0	R12
02-663F-R15L	150	0.125	0.450	70	80	70	17	0.93	6.0	R15
02-663F-R17L	170	0.125	0.450	70	70	55	17	0.94	6.0	R17
02-663F-R20L	200	0.125	0.450	70	50	40	17	0.95	6.0	R20

PHYSICAL DIMENSIONS

Top View

Bottom View

Front View

Side View

Recommended PCB Layout

Notes:

- Marking: Inductance (Please refer to Electrical Specifications table)
- Dimension B please refer to Electrical Specifications table.

Size	A	C	D1	D2	D3	E	F
mm	12.00 Max.	12.00 Max.	2.40±0.20	3.10±0.20	1.05±0.20	1.40±0.20	5.30±0.20
inches	0.472 Max.	0.472 Max.	0.094±0.008	0.122±0.008	0.041±0.008	0.055±0.008	0.209±0.008