

CTTV4622F

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)

Storage Temperature: -40°C to +125°C (on board)

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.

Isat 3(A): Saturation current will cause inductance L0 to drop approx. 20% at +125°C.

Rated Current: The lower value of Isat and Irms.

Storage Condition (Component in its packaging)

- Temperature: Less than 40°C
- Humidity: Less than 60% 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 1-4/2-3 ±15%	Inductance (nH) @Isat1 1-4 Min.	DCR (mΩ) ±10%		Irms (A)		Isat 1 (A)	Isat 2 (A)	Isat 3 (A)	Marking
			1-4	2-3	1-4	2-3				
CTTV4622F-R07L	70	47.6	0.125	0.370	77	45	160	140	130	70N
CTTV4622F-R08L	80	54.4	0.125	0.370	77	45	150	120	110	80N
CTTV4622F-R09L	90	61.2	0.125	0.370	77	45	135	115	105	90N
CTTV4622F-R10L	105	71.4	0.125	0.370	77	45	125	106	98	R10
CTTV4622F-R12L	120	81.6	0.125	0.370	77	45	102	87	80	R12
CTTV4622F-R15L	150	102	0.125	0.370	77	45	84	71	58	R15
CTTV4622F-R17L	170	115.6	0.125	0.370	77	45	70	60	53	R17
CTTV4622F-R20L	200	136	0.125	0.370	77	45	58	50	43	R20

PHYSICAL DIMENSIONS

Top view

Bottom view

Front view

Side view

Recommended PCB Layout

Note: 1. Marking: Inductance (Please refer to Electrical Specifications table)

Size	A	B	C	D1	D2	D3	E	F
mm	11.70±0.30	5.70±0.30	11.0±0.20	2.45±0.30	1.30±0.30	1.15±0.30	2.65±0.50	10.10±0.50
inches	0.461±0.012	0.224±0.012	0.433±0.008	0.096±0.012	0.051±0.012	0.045±0.012	0.104±0.020	0.398±0.020