CTMPA121205F Series

From 0.33µH to 6.8µH

CHARACTERISTICS

Description: SMD Molded Magnetically Shielded Inductors
Applications: DC/DC converter for CPU in Notebook PC, Battery powered devices, Cellular phone LCD displays, HDD's, DVC's, DCS's, PDA, Thin type on-board power supply module, etc.
Operating Temperature: -40°C to +120°C (The part temperature (ambient + temp. rise) should not exceed 125°C under worst case operating conditions. Circuit design, component placement, PWB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.)
Isat: Inductance drop 20% from its value with current.
Irms: 40°C temperature rise from 25°C ambient with current.
Inductance Tolerance: ±20% (M), ±30% (N)
Testing: Inductance tested at 200kHz, 0.25V, 0A. 25°C ambient.
Packaging: Tape & Reel.
Miscellaneous: RoHS Compliant.
Additional Information: Additional electrical & physical information available upon request.
Samples available. See website for ordering information.

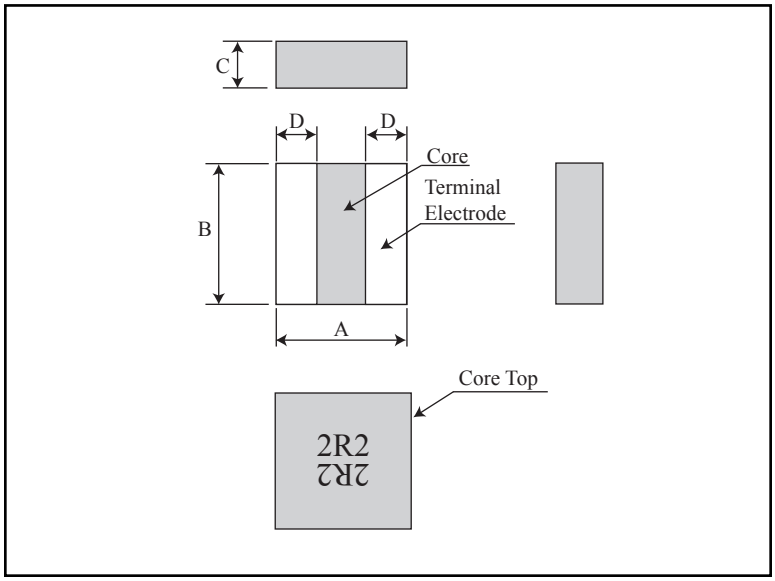
SPECIFICATIONS

Part numbers indicate the available inductance tolerance.
M = ±20%, N = ±30%

Part Number	Inductance at 200kHz (µH)	DCR Max. (mΩ)	DCR Typ. (mΩ)	Isat Typ. (A)	Irms Typ. (A)
CTMPA121205F-R33N	0.33	22.8	19.0	11.10	3.40
CTMPA121205F-R47N	0.47	26.4	22.0	9.40	3.20
CTMPA121205F-R56N	0.56	34.8	29.0	8.50	3.00
CTMPA121205F-R68N	0.68	43.2	36.0	7.70	2.70
CTMPA121205F-1R0M	1.0	50.5	42.1	6.60	2.50
CTMPA121205F-1R2M	1.2	66.0	55.0	6.30	2.30
CTMPA121205F-1R5M	1.5	96.0	80.0	5.70	1.90
CTMPA121205F-2R2M	2.2	115.0	100.0	4.60	1.70
CTMPA121205F-3R3M	3.3	179.7	156.3	3.70	1.30
CTMPA121205F-4R7M	4.7	307.8	267.7	3.30	1.00
CTMPA121205F-5R6M	5.6	389.0	338.3	3.00	0.90
CTMPA121205F-6R8M	6.8	423.4	368.2	2.40	0.80

PHYSICAL DIMENSIONS

Size	A	B	C Max.	D
mm	3.0 ± 0.2	3.0 ± 0.2	1.2	1.2 ± 0.2
inches	0.118 ± 0.008	0.118 ± 0.008	0.047	0.047 ± 0.008



PAD LAYOUT