CTMMP3116F Series

From 0.22μH to 33μH

CHARACTERISTICS

Description: SMD (shielded) power inductor
Applications: High density DC/DC converters. POL converters. High current VRM/VRD for notebooks, servers, and desktop CPUs. High speed chargers.
Operating Temperature: -40°C to +125°C [The part temperature (ambient + temp. rise)] should not exceed 125°C under worst case operating conditions. Component placement, PWB trace, size, thickness and other cooling provisions will affect the part temperature. Part temperature should be verified in the end application.
Inductance Tolerance: N = ±30%, M = ±20%
Testing: Inducance is measured at 200kHz, 0.25V
Packaging: Tape & Reel.
Marking: Parts are marked with inductance code.
Miscellaneous: RoHS Compliant.
Additional Information: Additional electrical & physical information available upon request.
Samples available. See website for ordering information.

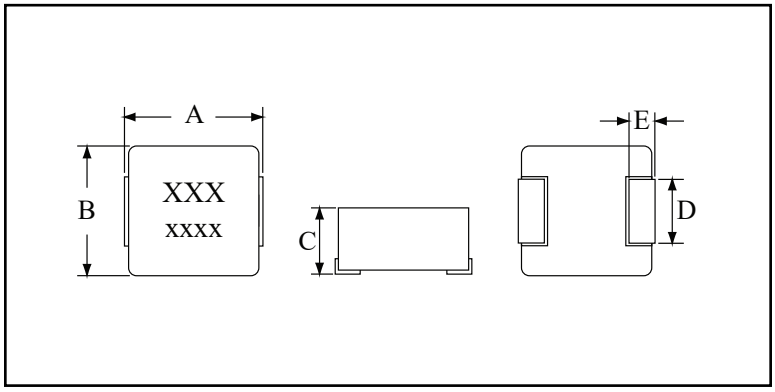
SPECIFICATIONS

Parts numbers indicate available inductance tolerance.
N = ±30%, M = ±20%
***Irms DC current (A) will cause an approximately ΔT of 40°C**
****Isat DC current (A) will cause L0 to drop approximately 30%**

Part Number	Inductance (μH)	L Test Freq. (KHz)	*Irms Typ. (A)	**Isat Typ. (A)	DCR Max. (mΩ)	DCR Typ. (mΩ)
CTMMP3116F-R22N	0.22	100	30.7	45.0	1.70	1.57
CTMMP3116F-R47N	0.47	100	25.0	31.5	2.62	2.45
CTMMP3116F-1R0M	1.00	100	18.0	24.0	5.78	5.40
CTMMP3116F-2R2M	2.20	100	10.5	23.0	13.7	12.0
CTMMP3116F-3R3M	3.30	100	9.20	20.0	17.7	15.5
CTMMP3116F-4R7M	4.70	100	7.25	15.0	32.0	28.0
CTMMP3116F-6R8M	6.80	100	6.70	7.00	33.4	30.0
CTMMP3116F-100M	10.0	100	5.20	9.00	59.9	51.0
CTMMP3116F-220M	22.0	100	3.70	3.80	110.2	104.0
CTMMP3116F-330M	33.0	100	3.10	3.20	159.4	142.0

PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Max.	D	E
mm	8.9	8.3	4.0	3.0±0.5	1.9±0.3
inches	0.350	0.327	0.157	0.118±0.020	0.075±0.012



PAD LAYOUT