CTIHLP2912F Series

From 0.1µH to 10µH

CHARACTERISTICS

Description: SMD (shielded) power inductor.
Applications: PDA, Notebook, Desktop, Server applications, Low profile, high current power supplies, battery powered devices, DC/DC converter for Field Programmable Gate Array (FPGA).
Operating Temperature: -55°C to +125°C (including self - temperature rise)
Inductance Tolerance: ±20%
Testing: Inductance is tested at 100KHz, 0.5V
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.

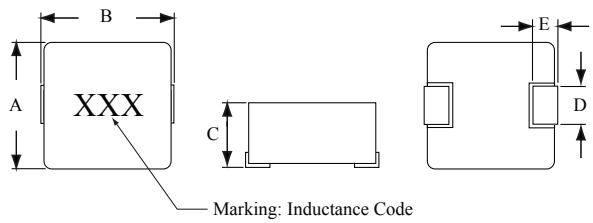
SPECIFICATIONS

*Irms: DC current (A) that will cause an approximate ΔT of 40°C.
**Isat: DC current (A) that will cause L0 to drop approximately 30%.

Part Number	Inductance (µH)	L Test Freq. (KHz)	DCR Max. (mΩ)	*Irms Typ. (A)	**Isat Typ. (A)
CTIHLP2912F-R10M	0.10	100	1.7(1.5 Typ.)	32.5	60
CTIHLP2912F-R15M	0.15	100	2.5(1.9 Typ.)	30	40
CTIHLP2912F-R22M	0.22	100	3.0(2.5 Typ.)	23	34
CTIHLP2912F-R33M	0.33	100	3.5(3.0 Typ.)	21	25
CTIHLP2912F-R36M	0.36	100	3.9(3.3 Typ.)	20	24
CTIHLP2912F-R47M	0.47	100	4.1(3.5 Typ.)	18	20
CTIHLP2912F-R56M	0.56	100	4.5(3.9 Typ.)	16.5	18
CTIHLP2912F-R68M	0.68	100	5.3(4.8 Typ.)	16	17
CTIHLP2912F-R82M	0.82	100	6.0(5.4 Typ.)	14	16
CTIHLP2912F-1R0M	1.0	100	7.4(6.7 Typ.)	12	15
CTIHLP2912F-1R2M	1.2	100	10(7.8 Typ.)	10	14
CTIHLP2912F-1R5M	1.5	100	12.1(10.6 Typ.)	10	14
CTIHLP2912F-2R2M	2.2	100	15(13.5 Typ.)	8	10
CTIHLP2912F-3R3M	3.3	100	22(18.0 Typ.)	6.5	9.5
CTIHLP2912F-4R7M	4.7	100	33(28.0 Typ.)	5.5	6.5
CTIHLP2912F-5R6M	5.6	100	42(39.0 Typ.)	5.5	6
CTIHLP2912F-6R8M	6.8	100	50(43.9 Typ.)	4.5	6
CTIHLP2912F-8R2M	8.2	100	60(54.0 Typ.)	4.5	6
CTIHLP2912F-100M	10	100	68(62.0 Typ.)	4	5.5

PHYSICAL DIMENSIONS

Size	A	B	C	D	E
		Max.	Max.	Typ.	
mm	6.6±0.2	7.3	3.0	2.9	1.6±0.5
inches	0.26±0.008	0.29	0.12	0.11	0.06±0.020



PAD LAYOUT