CTPC3012F Series

From 0.56 µH to 47 µH

CHARACTERISTICS

Description: SMD Shielded Power Inductor
Applications: Mainly used as a power source inductor for mobile phones, HDDs, LCD panels and DSCs.
Operating Temperature: -40°C to +105°C (includes self temp. rise)
IDC1: Based on inductance change (ΔL/L0: ≦ 30%) at ambient temp. 25°C
IDC2: Based on temperature rise (ΔT: 40°C Typ.)
Rated Current: IDC1 or IDC2, whichever value is lower.
Resistance to Solder Heat: 260°C 10 secs.
Inductance Tolerance: ±20%, ±30%
Testing: Inductance is tested on an HP4284A at 100KHz, 0.1V
Packaging: Tape & Reel
Marking: Parts are marked with letter identifier.
Miscellaneous: RoHS Compliant.
Additional Information: Additional electrical & physical information available upon request.
Samples available. See website for ordering information.

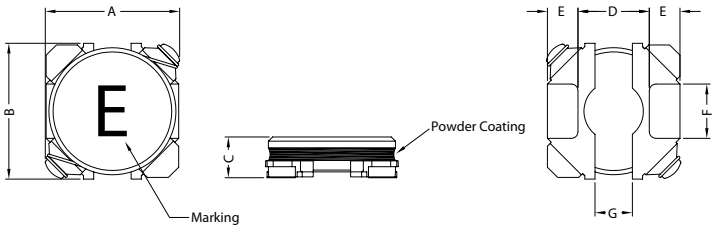
SPECIFICATIONS

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

Part Number	Marking	Inductance (µH)	L Test Freq. (KHz)	DCR (mΩ) ±20%	IDC1 (A)	IDC2 (A)
CTPC3012F-R56N	7	0.56	100	38	2.50	1.95
CTPC3012F-R68N	8	0.68	100	44	2.10	1.85
CTPC3012F-1R0N	A	1.0	100	53	1.90	1.70
CTPC3012F-1R2N	B	1.2	100	53	1.90	1.70
CTPC3012F-1R5N	C	1.5	100	67	1.70	1.55
CTPC3012F-2R2N	E	2.2	100	93	1.30	1.40
CTPC3012F-3R3N	G	3.3	100	130	1.10	1.20
CTPC3012F-4R7M	I	4.7	100	190	0.95	0.95
CTPC3012F-5R6M	J	5.6	100	220	0.83	0.85
CTPC3012F-6R8M	K	6.8	100	260	0.80	0.80
CTPC3012F-100M	M	10.0	100	360	0.65	0.67
CTPC3012F-150M	O	15.0	100	530	0.55	0.56
CTPC3012F-220M	Q	22.0	100	790	0.45	0.41
CTPC3012F-330M	S	33.0	100	1140	0.36	0.31
CTPC3012F-470M	U	47.0	100	1530	0.30	0.22

PHYSICAL DIMENSIONS

Size	A	B	C Max.	D Typ.	E Typ.	F Typ.	G Typ.
mm	3.0±0.2	2.9±0.2	1.2	1.5	0.76	1.2	0.7
inches	0.12±0.008	0.11 ± 0.008	0.047	0.06	0.03	0.05	0.03



PAD LAYOUT