

CTPC4012F Series

From 1.0 μ H to 47 μ H



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 ($\Delta L/L_0 \leq 30\%$) 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: $\pm 20\%$, $\pm 30\%$

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

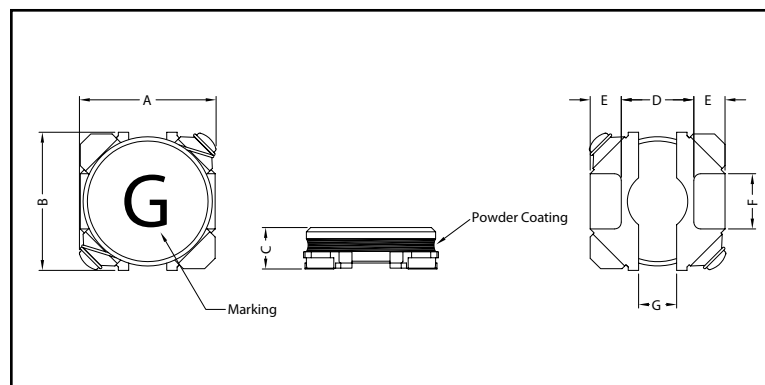
Part numbers indicate available inductance tolerance:

M = $\pm 20\%$, N = $\pm 30\%$

Part Number	Marking	Inductance (μ H)	L Test Freq. (KHz)	DCR ($m\Omega$) $\pm 20\%$	IDC1 (A)	IDC2 (A)
CTPC4012F-1R0N	A	1.0	100	42	2.30	1.90
CTPC4012F-1R5N	C	1.5	100	57	1.90	1.70
CTPC4012F-2R2N	E	2.2	100	86	1.50	1.55
CTPC4012F-3R3N	G	3.3	100	100	1.30	1.40
CTPC4012F-4R7M	I	4.7	100	130	1.10	1.25
CTPC4012F-6R8M	K	6.8	100	180	0.95	1.05
CTPC4012F-100M	M	10	100	280	0.75	0.80
CTPC4012F-150M	O	15	100	390	0.65	0.70
CTPC4012F-220M	Q	22	100	530	0.55	0.60
CTPC4012F-330M	S	33	100	850	0.45	0.40
CTPC4012F-470M	U	47	100	1140	0.38	0.35

PHYSICAL DIMENSIONS

Size	A	B	C Max.	D Typ.	E Typ.	F Typ.	G Typ.
mm	4.0 $\pm$ 0.2	3.9 $\pm$ 0.2	1.2	2.1	0.96	1.6	1.1
inches	0.16 $\pm$ 0.008	0.15 $\pm$ 0.008	0.047	0.082	0.038	0.063	0.043



PAD LAYOUT

Unit: mm

