

CTPC3010F Series

From 1.0 μ H to 22 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 ($\Delta T: 40^\circ\text{C Typ.}$)

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

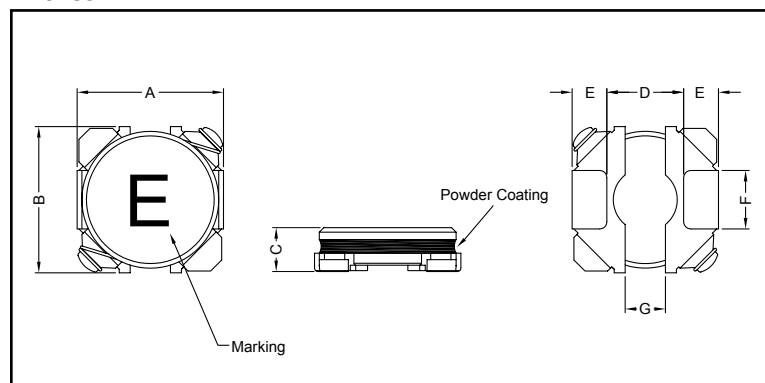
Part numbers indicate available inductance tolerance:

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)
CTPC3010F-1R0N	A	1.0	100	64	1.50	1.70
CTPC3010F-1R2N	B	1.2	100	72	1.30	1.60
CTPC3010F-1R5N	C	1.5	100	86	1.10	1.45
CTPC3010F-2R2N	E	2.2	100	120	0.95	1.25
CTPC3010F-3R3N	G	3.3	100	170	0.80	1.00
CTPC3010F-3R9N	H	3.9	100	200	0.70	0.90
CTPC3010F-4R7M	I	4.7	100	250	0.65	0.85
CTPC3010F-5R6M	J	5.6	100	300	0.60	0.78
CTPC3010F-6R8M	K	6.8	100	350	0.55	0.70
CTPC3010F-8R2M	L	8.2	100	400	0.50	0.65
CTPC3010F-100M	M	10.0	100	490	0.45	0.60
CTPC3010F-150M	O	15.0	100	680	0.38	0.50
CTPC3010F-220M	Q	22.0	100	1000	0.33	0.40

PHYSICAL DIMENSIONS

Size	A	B	C Max.	D Typ.	E Typ.	F Typ.	G Typ.
mm	3.0 $\pm$ 0.2	2.9 $\pm$ 0.2	1.0	1.5	0.76	1.2	0.7
inches	0.12 $\pm$ 0.008	0.11 $\pm$ 0.008	0.04	0.06	0.03	0.05	0.03



PAD LAYOUT

Unit: mm

