

## CTP4012F Series

From 1.2  $\mu\text{H}$  to 33  $\mu\text{H}$



### SPECIFICATIONS

Part numbers indicate available inductance tolerance:  
M =  $\pm 20\%$ , N =  $\pm 30\%$

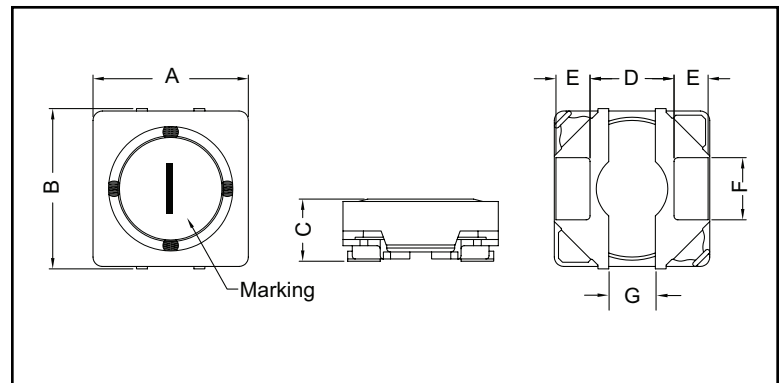
Part Number	Marking	Inductance ( $\mu\text{H}$ )	L Test Freq. (KHz)	DCR ( $\text{m}\Omega$ ) $\pm 20\%$	IDC1 (A)	IDC2 (A)
CTP4012F-1R2N	B	1.2	100	57	2.00	2.00
CTP4012F-1R5N	C	1.5	100	67	1.70	1.80
CTP4012F-2R2N	E	2.2	100	84	1.50	1.55
CTP4012F-3R3N	G	3.3	100	100	1.30	1.25
CTP4012F-4R7M	I	4.7	100	140	1.10	1.15
CTP4012F-6R8M	K	6.8	100	170	1.00	1.05
CTP4012F-8R2M	L	8.2	100	210	0.90	1.00
CTP4012F-100M	M	10	100	260	0.75	0.90
CTP4012F-120M	N	12	100	300	0.66	0.85
CTP4012F-150M	O	15	100	390	0.70	0.75
CTP4012F-180M	P	18	100	450	0.60	0.60
CTP4012F-220M	Q	22	100	650	0.57	0.50
CTP4012F-270M	R	27	100	750	0.48	0.40
CTP4012F-330M	S	33	100	850	0.39	0.45

### CHARACTERISTICS

- Description:** SMD Shielded Power Inductor
- Applications:** Mainly used as a power source inductor for mobile phones, HDDs, LCD panels and DSCs.
- Operating Temperature:**  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$  (includes self temp. rise)
- IDC1:** Based on inductance change ( $\Delta L/L_0 \leq 30\%$ ) at ambient temp.  $25^{\circ}\text{C}$
- 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:**  $260^{\circ}\text{C}$  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.**

### PHYSICAL DIMENSIONS

Size	A	B	C Max.	D Typ.	E Typ.	F Typ.	G Typ.
mm	4.0 $\pm$ 0.2	4.0 $\pm$ 0.3	1.2	2.1	0.96	1.6	1.1
inches	0.16 $\pm$ 0.008	0.16 $\pm$ 0.012	0.047	0.082	0.037	0.063	0.043



### PAD LAYOUT

