

## CTPSI5020F Series

From 1.0 $\mu$ H to 100 $\mu$ H



### CHARACTERISTICS

**Description:** SMD (shielded) power inductor

**Applications:** Small DC/DC converters (LCD, LED, OLED TV, PC, Set top etc.), Power supply circuits.

**Operating Temperature (including self temperature):** -40°C to +125°C (Circuit design, component placement, PCB trace size and thickness, airflow and other cooling provisions all affect the part temperature. Part temperature should be verified in the end application.)

**IDC1:** When based on the inductance change rate (approximately 20% below the initial value)

**IDC2:** When based on the temperature increase (temperature increase of approximately 40°C by self heating)

**Inductance tolerance:**  $\pm 30\%$ ,  $\pm 20\%$

**Testing:** Inductance tested at 100kHz

**Packaging:** Tape and Reel

**Marking:** Parts marked with inductance code

**Samples available. See website for ordering information.**

### SPECIFICATIONS

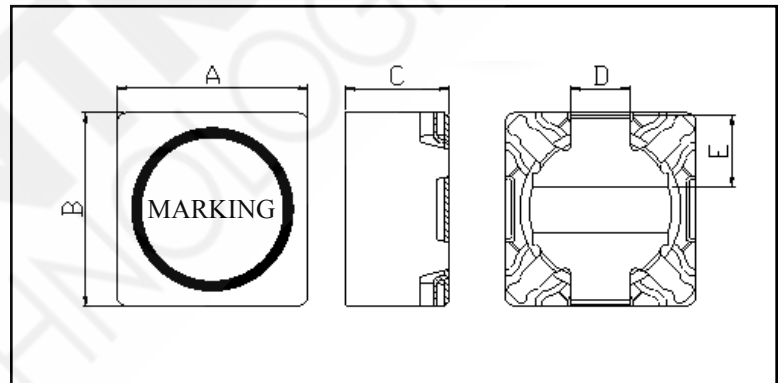
Part numbers indicate inductance tolerance available.

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

Part Number	Inductance ( $\mu$ H)	Tolerance ( $\pm\%$ )	DCR $\pm 20\%$ (m $\Omega$ )	IDC1 Max. (A)	IDC2 Max. (A)	Test Freq. (Hz)
CTPSI5020F-1R0N	1.0	30	29	5.00	4.10	100k
CTPSI5020F-1R5N	1.5	30	38	4.30	3.30	100k
CTPSI5020F-2R2N	2.2	30	49	3.20	2.80	100k
CTPSI5020F-4R7N	4.7	30	81	2.30	2.30	100k
CTPSI5020F-6R8N	6.8	30	119	1.90	1.70	100k
CTPSI5020F-100M	10	20	178	1.60	1.40	100k
CTPSI5020F-220M	22	20	364	1.10	1.00	100k
CTPSI5020F-330M	33	20	501	0.91	0.84	100k
CTPSI5020F-470M	47	20	763	0.74	0.68	100k
CTPSI5020F-680M	68	20	1132	0.63	0.57	100k
CTPSI5020F-101M	100	20	1548	0.52	0.46	100k

### PHYSICAL DIMENSIONS

Size	A	B	C Max.	D	E
mm	5.0 $\pm$ 0.2	5.0 $\pm$ 0.2	2.0	1.6 $\pm$ 0.2	1.9 $\pm$ 0.2
inches	0.197 $\pm$ 0.008	0.197 $\pm$ 0.008	0.079	0.063 $\pm$ 0.008	0.075 $\pm$ 0.008



### PAD LAYOUT

