

CTPSI5020F Series

From 1.0µH to 100µH



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: ±30%, ±20%

Testing: Inductance tested at 100kHz

Packaging: Tape and Reel

Marking: Parts marked with inductance code

Samples available. See website for ordering information.

SPECIFICATIONS

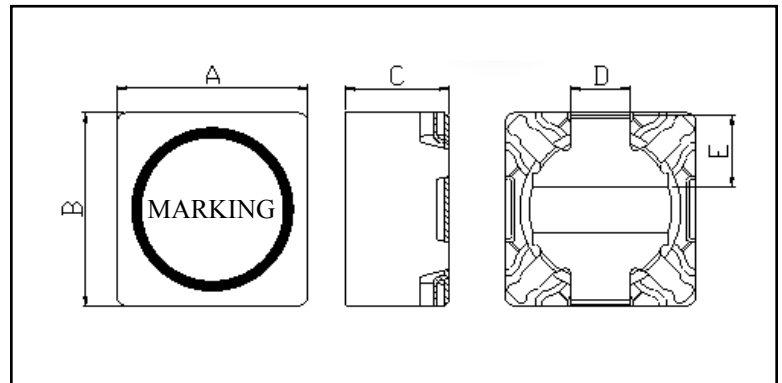
Part numbers indicate inductance tolerance available.

N = ±30%, M = ±20%

Part Number	Inductance (µH)	Tolerance (±%)	DCR ±20% (mΩ)	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±0.2	5.0±0.2	2.0	1.6±0.2	1.9±0.2
inches	0.197±0.008	0.197±0.008	0.079	0.063±0.008	0.075±0.008



PAD LAYOUT

