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

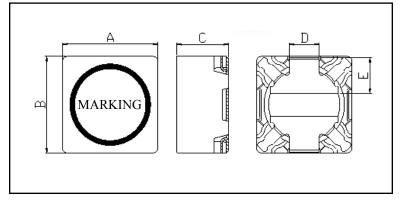
Samples available. See website for ordering information.

SPECIFICATIONS

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

N = 10076, M = 12076						
Part Number	Inductance (µH)	Tolerance (±%)	DCR ±20% (mΩ)	IDC1 Max. (A)	IDC2 Max. (A)	Test Freq. (Hz)
CTPSI5020F-1R0N CTPSI5020F-1R5N CTPSI5020F-2R2N CTPSI5020F-2R7N CTPSI5020F-6R8N	1.0 1.5 2.2 4.7 6.8	30 30 30 30 30	29 38 49 81 119	5.00 4.30 3.20 2.30 1.90	4.10 3.30 2.80 2.30 1.70	100k 100k 100k 100k 100k
CTPSI5020F-100M CTPSI5020F-220M CTPSI5020F-330M CTPSI5020F-470M CTPSI5020F-680M	10 22 33 47 68	20 20 20 20 20	178 364 501 763 1132	1.60 1.10 0.91 0.74 0.63	1.40 1.00 0.84 0.68 0.57	100k 100k 100k 100k 100k
CTPSI5020F-101M	100	20	1548	0.52	0.46	100k

PHYSICAL DIMENSIONS Size Α В С D E Max. mm 5.0+0.2 1.6 ± 0.2 1.9 ± 0.2 5.0+0.22.0 inches 0.197+0.008 0.197+0.008 0.079 0.063±0.008 0.075±0.008



PAD LAYOUT

