

## CTLV5020SF Series

From 1.0 $\mu$ H to 22 $\mu$ H



### CHARACTERISTICS

- Description:** SMD power inductors sealed with magnetic resin.
- Applications:** Smart phones, DSC, Tablet PC's, DC/DC converters, etc.
- Operating Temperature:** -55°C to +125°C (including self - temperature rise)
- Inductance Tolerance:**  $\pm 20\%$ ,  $\pm 30\%$
- Testing:** Inductance is tested on an HP4285A at 100kHz, 1V
- Packaging:** Tape & Reel.
- Marking:** Parts are marked with inductance code.
- Miscellaneous:** **RoHS Compliant.**
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

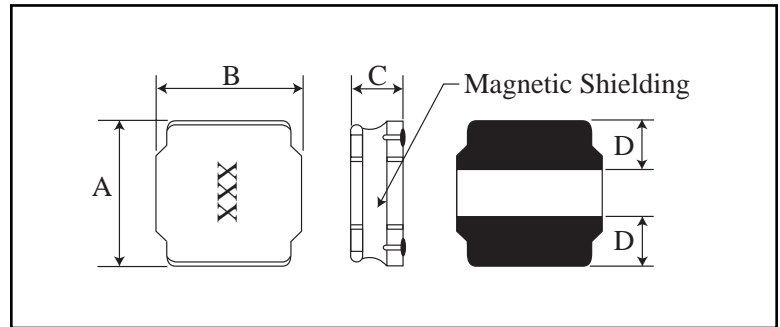
### SPECIFICATIONS

Please specify inductance tolerance code when ordering.  
 CTLV5020SF-1R0\_ ← M =  $\pm 20\%$ , N =  $\pm 30\%$   
 \*Isat: For inductance drop 30% from its value without current.  
 \*\*I<sub>rms</sub>: For a 40°C rise above 25°C ambient.

Part Number	Inductance ( $\mu$ H)	L Test Freq. (kHz)	DCR $\pm 30\%$ ( $\Omega$ )	*Isat Typ.(Max.) (A)	**I <sub>rms</sub> Typ.(Max.) (A)
CTLV5020SF-1R0_	1.0	100	0.018	6.0(5.40)	4.1(3.69)
CTLV5020SF-1R5_	1.5	100	0.023	4.9(4.41)	3.5(3.15)
CTLV5020SF-2R2_	2.2	100	0.030	4.0(3.60)	3.3(2.97)
CTLV5020SF-3R9_	3.9	100	0.053	2.9(2.61)	2.6(2.34)
CTLV5020SF-4R7_	4.7	100	0.060	2.7(2.43)	2.2(1.98)
CTLV5020SF-6R8_	6.8	100	0.093	2.2(1.98)	1.8(1.62)
CTLV5020SF-100_	10	100	0.125	1.8(1.62)	1.6(1.44)
CTLV5020SF-150_	15	100	0.195	1.4(1.26)	1.2(1.08)
CTLV5020SF-220_	22	100	0.265	1.2(1.08)	1.0(0.90)

### PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	5.0 $\pm$ 0.20	5.0 $\pm$ 0.20	2.0 $\pm$ 0.2	1.8
inches	0.197 $\pm$ 0.008	0.197 $\pm$ 0.008	0.079 $\pm$ 0.008	0.071



### PAD LAYOUT

