

## CTLV5040SF 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 letter code.
- Miscellaneous:** **RoHS Compliant.**
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

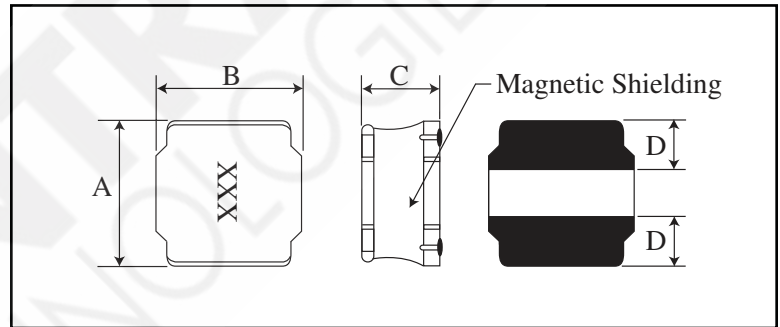
### SPECIFICATIONS

Please specify inductance tolerance code when ordering.  
 CTLV5040SF-1R0\_ ← M =  $\pm 20\%$ , N =  $\pm 30\%$   
 \*Isat: For inductance drop 30% from its value without current.  
 \*\*Irms: 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)	**Irms Typ.(Max.) (A)
CTLV5040SF-1R0_	1.0	100	0.012	8.8(7.92)	5.9(5.31)
CTLV5040SF-1R5_	1.5	100	0.014	7.9(7.11)	5.4(4.86)
CTLV5040SF-2R2_	2.2	100	0.020	6.8(6.12)	4.5(4.05)
CTLV5040SF-3R3_	3.3	100	0.026	5.3(4.77)	4.2(3.78)
CTLV5040SF-4R7_	4.7	100	0.032	4.4(3.96)	3.2(2.88)
CTLV5040SF-6R8_	6.8	100	0.050	3.8(3.42)	3.0(2.70)
CTLV5040SF-100_	10	100	0.070	3.0(2.70)	2.3(2.70)
CTLV5040SF-150_	15	100	0.115	2.4(2.16)	1.8(1.62)
CTLV5040SF-220_	22	100	0.160	2.0(1.80)	1.6(1.44)

### PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	5.0 $\pm$ 0.20	5.0 $\pm$ 0.20	4.0 $\pm$ 0.2	Typ. 1.5
inches	0.197 $\pm$ 0.008	0.197 $\pm$ 0.008	0.157 $\pm$ 0.008	0.059



### PAD LAYOUT

Unit: mm

