

## CTLV2512SF Series

From 0.50 $\mu$ 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 1.0MHz, 200mV
- 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.**

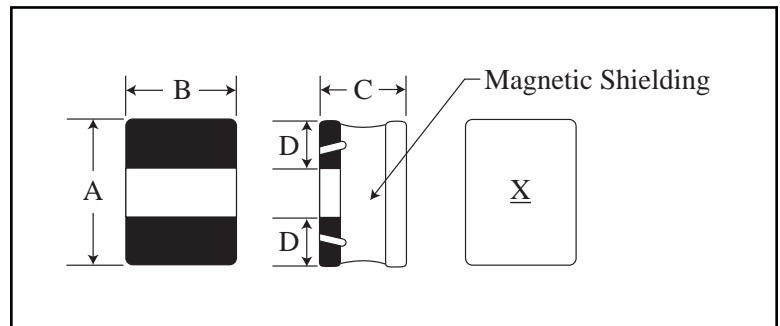
### SPECIFICATIONS

Please specify inductance tolerance code when ordering.  
 CTLV2512SF-R50\_ ← 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. (MHz)	DCR $\pm 30\%$ ( $\Omega$ )	*Isat Typ.(Max.) (A)	**Irms Typ.(Max.) (A)
CTLV2512SF-R50_	0.50	1.0	0.028	3.50(3.15)	3.00(2.70)
CTLV2512SF-1R0_	1.0	1.0	0.050	2.50(2.25)	2.40(2.16)
CTLV2512SF-1R2_	1.2	1.0	0.053	2.10(1.89)	2.35(2.11)
CTLV2512SF-1R5_	1.5	1.0	0.068	1.95(1.75)	2.30(2.07)
CTLV2512SF-2R2_	2.2	1.0	0.080	1.80(1.62)	1.80(1.62)
CTLV2512SF-3R3_	3.3	1.0	0.130	1.45(1.30)	1.50(1.35)
CTLV2512SF-4R7_	4.7	1.0	0.190	1.10(0.99)	1.10(0.99)
CTLV2512SF-5R6_	5.6	1.0	0.210	1.05(0.94)	1.00(0.90)
CTLV2512SF-6R8_	6.8	1.0	0.300	0.95(0.85)	0.80(0.72)
CTLV2512SF-100_	10	1.0	0.385	0.88(0.79)	0.70(0.63)
CTLV2512SF-150_	15	1.0	0.570	0.68(0.61)	0.62(0.55)
CTLV2512SF-220_	22	1.0	0.810	0.55(0.49)	0.53(0.47)

### PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	2.5 $\pm$ 0.25	2.0 $\pm$ 0.25	1.2 $\pm$ 0.05	0.8
inches	0.098 $\pm$ 0.010	0.079 $\pm$ 0.010	0.047 $\pm$ 0.002	0.031



### PAD LAYOUT

