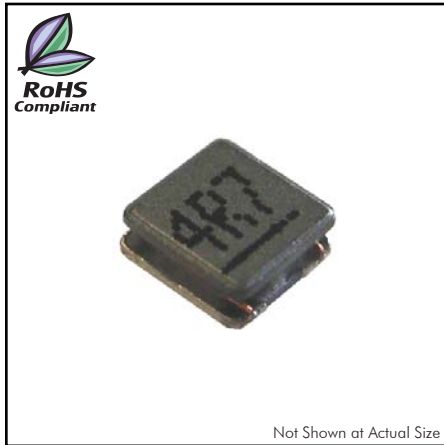


## CTLV3012SF Series

From 2.2 $\mu$ 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 HP4284A at 1.0MHz, 200mV
- 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.**

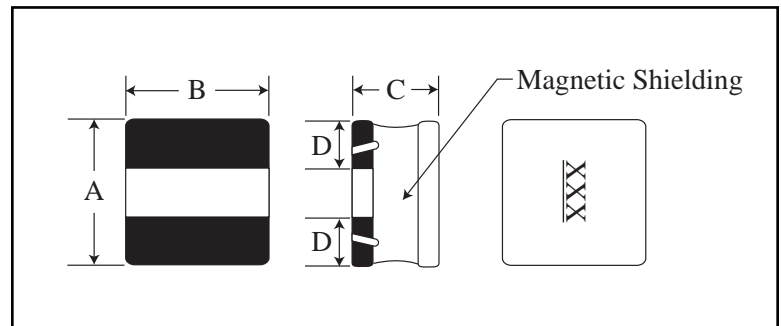
### SPECIFICATIONS

Please specify inductance tolerance code when ordering.  
 CTLV3012SF-2R2\_ ← 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) |
|-----------------|-----------------------|--------------------|-----------------------------|----------------------|-----------------------|
| CTLV3012SF-2R2_ | 2.2                   | 1.0                | 0.092                       | 2.10(1.89)           | 2.00(1.80)            |
| CTLV3012SF-3R3_ | 3.3                   | 1.0                | 0.13                        | 1.84(1.65)           | 1.80(1.62)            |
| CTLV3012SF-4R7_ | 4.7                   | 1.0                | 0.18                        | 1.56(1.40)           | 1.52(1.36)            |
| CTLV3012SF-6R8_ | 6.8                   | 1.0                | 0.25                        | 1.32(1.18)           | 1.30(1.17)            |
| CTLV3012SF-100_ | 10                    | 1.0                | 0.42                        | 1.06(0.95)           | 1.00(0.90)            |
| CTLV3012SF-150_ | 15                    | 1.0                | 0.56                        | 0.82(0.73)           | 0.80(0.72)            |
| CTLV3012SF-220_ | 22                    | 1.0                | 0.86                        | 0.64(0.57)           | 0.62(0.55)            |

### PHYSICAL DIMENSIONS

| Size   | A                 | B                 | C        | D     |
|--------|-------------------|-------------------|----------|-------|
| mm     | 3.0 $\pm$ 0.20    | 3.0 $\pm$ 0.20    | Max. 1.2 | 1.0   |
| inches | 0.118 $\pm$ 0.008 | 0.118 $\pm$ 0.008 | 0.047    | 0.039 |



### PAD LAYOUT

