

CTLVC4012F Series

From 1.0 μ H to 47 μ 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 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.**

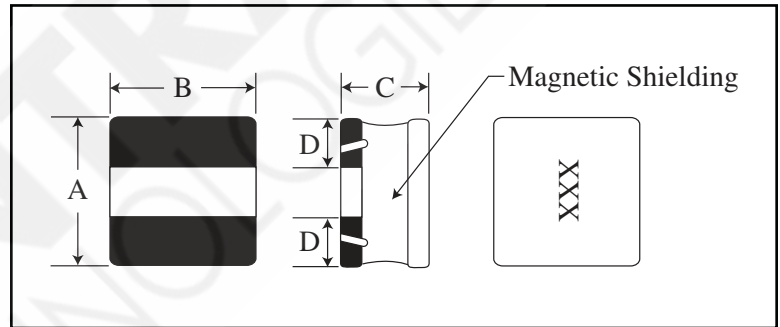
SPECIFICATIONS

Please specify inductance tolerance code when ordering.
 CTLVC4012F-3R3_ ← M = $\pm 20\%$, N = $\pm 30\%$
 *Isat: DC current (A) that will cause L to drop approximately 30%.
 **Irms: DC current (A) that will cause an approximate ΔT of 40°C.

| Part Number | Inductance (μ H) | L Test Freq. (kHz) | DCR $\pm 30\%$ (m Ω) | *Isat Typ.(Max.) (A) | **Irms Typ.(Max.) (A) |
|-----------------|-----------------------|--------------------|------------------------------|----------------------|-----------------------|
| CTLVC4012F-1R0N | 1.0 | 100 | 48 | 2.50(2.25) | 1.70(1.53) |
| CTLVC4012F-1R5N | 1.5 | 100 | 58 | 2.10(1.89) | 1.60(1.44) |
| CTLVC4012F-2R2_ | 2.2 | 100 | 65 | 1.70(1.53) | 1.50(1.35) |
| CTLVC4012F-3R3_ | 3.3 | 100 | 90 | 1.30(1.17) | 1.40(1.26) |
| CTLVC4012F-4R7_ | 4.7 | 100 | 110 | 1.10(0.99) | 1.20(1.08) |
| CTLVC4012F-6R8_ | 6.8 | 100 | 135 | 0.90(0.81) | 1.05(0.94) |
| CTLVC4012F-100_ | 10 | 100 | 190 | 0.78(0.70) | 0.90(0.81) |
| CTLVC4012F-150_ | 15 | 100 | 250 | 0.65(0.58) | 0.85(0.76) |
| CTLVC4012F-220_ | 22 | 100 | 400 | 0.52(0.46) | 0.75(0.67) |
| CTLVC4012F-330_ | 33 | 100 | 600 | 0.44(0.39) | 0.70(0.63) |
| CTLVC4012F-470_ | 47 | 100 | 930 | 0.35(0.31) | 0.50(0.45) |

PHYSICAL DIMENSIONS

| Size | A | B | C | D |
|--------|-------------------|-------------------|-------------------|-------|
| mm | 4.0 \pm 0.20 | 4.0 \pm 0.20 | 1.2 \pm 0.1 | 1.5 |
| inches | 0.157 \pm 0.008 | 0.157 \pm 0.008 | 0.047 \pm 0.004 | 0.059 |



PAD LAYOUT

