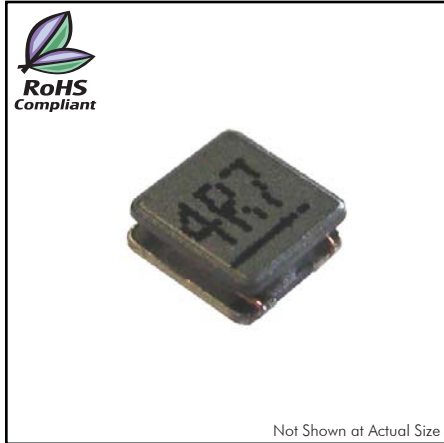


CTLV4012ASF Series From 0.5 μ H to 22 μ H



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 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.**

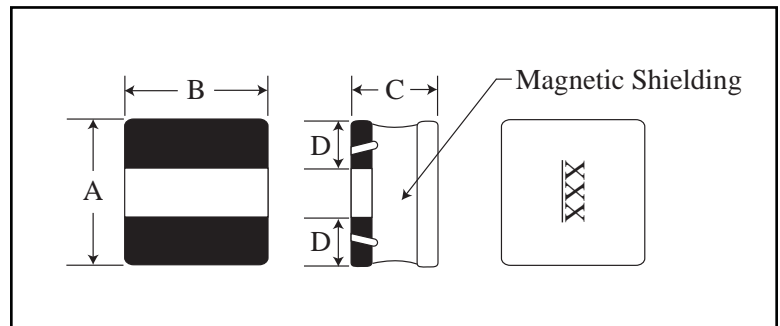
SPECIFICATIONS

Please specify inductance tolerance code when ordering.
 CTLV4012ASF-R50 ← M = $\pm 20\%$, N = $\pm 30\%$
 *Isat: For inductance drop 30% from its value without current.
 **I_{rms}: For a 40°C rise above 25°C ambient.

Part Number	Inductance (μ H)	L Test Freq. (MHz)	DCR $\pm 30\%$ (Ω)	*Isat Typ.(Max.) (A)	**I _{rms} Typ.(Max.) (A)
CTLV4012ASF-R50_	0.5	1.0	0.030	3.90(3.51)	3.50(3.15)
CTLV4012ASF-1R0_	1.0	1.0	0.040	2.90(2.61)	3.00(2.70)
CTLV4012ASF-1R5_	1.5	1.0	0.051	2.30(2.07)	2.50(2.25)
CTLV4012ASF-2R2_	2.2	1.0	0.060	1.90(1.71)	2.30(2.07)
CTLV4012ASF-4R7_	4.7	1.0	0.094	1.32(1.18)	1.80(1.62)
CTLV4012ASF-6R8_	6.8	1.0	0.135	1.08(0.97)	1.50(1.35)
CTLV4012ASF-150_	15	1.0	0.260	0.78(0.70)	1.00(0.90)
CTLV4012ASF-220_	22	1.0	0.390	0.62(0.55)	0.80(0.72)

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

