

## CTLVH3012F Series

From 1.0 $\mu$ H to 22 $\mu$ H



### CHARACTERISTICS

**Description:** SMD shielded power inductor  
**Applications:** Smartphones, tablets, wearable devices, DSC, camcorders, DC/DC converters  
**Operating Temperature:** -40°C to 125°C (Including self- temperature)  
**Inductance Tolerance:**  $\pm 20\%$ ,  $\pm 30\%$   
**Testing:** Inductance is tested on an HP4285A+HP42841A at 1MHz, 200mV  
**Packaging:** Tape & Reel  
**Miscellaneous:** **RoHS Compliant.**  
**Samples available. See website for ordering information.**

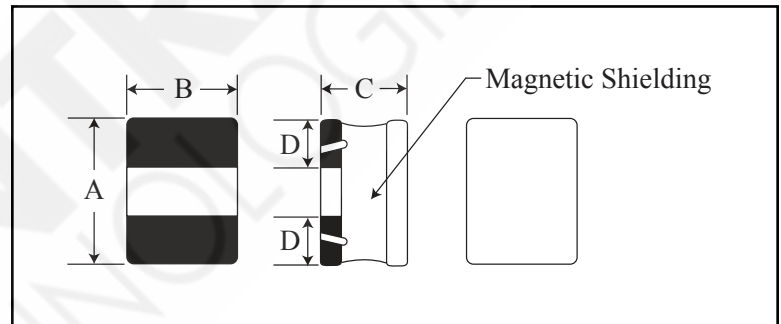
### SPECIFICATIONS

Please specify inductance tolerance code when ordering.  
 CTLVH3012F-1R0\_ ← M =  $\pm 20\%$ , N =  $\pm 30\%$   
 \*Isat: For inductance drop 30% from its value without current  
 \*\*Irms: For a 40°C temperature rise above 25°C ambient with current

Part Number	Inductance ( $\mu$ H)	L Test Freq. (MHz)	SRF Min. (MHz)	DCR (m $\Omega$ ) Max.	*Isat (A) (Max.) Typ.	**Irms (A) (Max.) Typ.
CTLVH3012F-1R0_	1.0	1.0	52	64	4.8(5.4)	2.7(3.0)
CTLVH3012F-2R2_	2.2	1.0	28	114	3.3(3.7)	2.0(2.3)
CTLVH3012F-3R3_	3.3	1.0	25	165	2.7(3.0)	1.7(1.9)
CTLVH3012F-4R7_	4.7	1.0	20	234	2.2(2.5)	1.3(1.5)
CTLVH3012F-6R8_	6.8	1.0	16	318	1.8(2.1)	1.1(1.3)
CTLVH3012F-100_	10	1.0	12	444	1.5(1.7)	1.0(1.15)
CTLVH3012F-220_	22	1.0	7	954	1.0(1.2)	0.63(0.7)

### PHYSICAL DIMENSIONS

Size	A	B	C	D
			<b>Max.</b>	
<b>mm</b>	3.0 $\pm$ 0.2	2.7 $\pm$ 0.2	1.2	1.00
<b>inches</b>	0.118 $\pm$ 0.008	0.11 $\pm$ 0.008	0.047	0.039



### PAD LAYOUT

