

CTLVC4018F

Series

From 1.0 μ H to 220 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.

CTLVC4018F-1R0_ $\leftarrow$ M = $\pm 20\%$, N = $\pm 30\%$

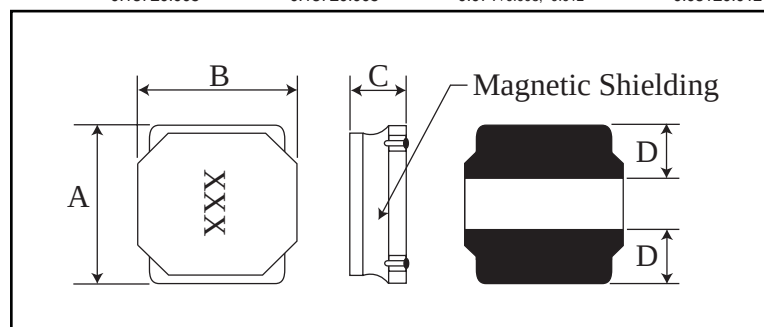
*Isat: DC current (A) that will cause L to drop approximately 30%.

**Irms: DC current (A) that will cause an approximate ΔT of 40°C.

Part Number	Inductance (μ H)	L Test Freq. (kHz)	DCR $\pm 20\%$ (m Ω)	*Isat Typ.(Max.) (A)	**Irms Typ.(Max.) (A)
CTLVC4018F-1R0_	1.0	100	32	4.10(3.69)	2.80(2.52)
CTLVC4018F-1R5_	1.5	100	40	3.30(2.97)	2.60(2.34)
CTLVC4018F-1R8_	1.8	100	55	2.80(2.50)	2.50(2.20)
CTLVC4018F-2R2_	2.2	100	60	2.80(2.52)	2.50(2.25)
CTLVC4018F-2R3_	2.3	100	60	2.80(2.52)	2.50(2.25)
CTLVC4018F-3R3_	3.3	100	70	2.20(1.98)	2.10(1.89)
CTLVC4018F-3R6_	3.6	100	75	2.10(1.89)	1.90(1.71)
CTLVC4018F-3R9_	3.9	100	75	2.10(1.89)	1.90(1.71)
CTLVC4018F-4R7_	4.7	100	90	2.00(1.80)	1.70(1.53)
CTLVC4018F-6R8_	6.8	100	110	1.60(1.44)	1.50(1.35)
CTLVC4018F-100_	10	100	170	1.40(1.26)	1.20(1.08)
CTLVC4018F-150_	15	100	250	1.00(0.90)	1.00(0.90)
CTLVC4018F-220_	22	100	350	0.90(0.81)	0.85(0.76)
CTLVC4018F-330_	33	100	530	0.80(0.72)	0.70(0.63)
CTLVC4018F-470_	47	100	720	0.70(0.63)	0.56(0.50)
CTLVC4018F-680_	68	100	1000	0.56(0.50)	0.45(0.40)
CTLVC4018F-101_	100	100	1500	0.46(0.41)	0.38(0.34)
CTLVC4018F-151_	150	100	2500	0.35(0.31)	0.30(0.27)
CTLVC4018F-221_	220	100	4000	0.28(0.25)	0.23(0.20)

PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	4.0 $\pm$ 0.20	4.0 $\pm$ 0.20	1.8 $\pm$ 0.2, -0.3	1.3 $\pm$ 0.3
inches	0.157 $\pm$ 0.008	0.157 $\pm$ 0.008	0.071 $\pm$ 0.008, -0.012	0.051 $\pm$ 0.012



PAD LAYOUT

Unit: mm

