

## CTSRU1048F Series

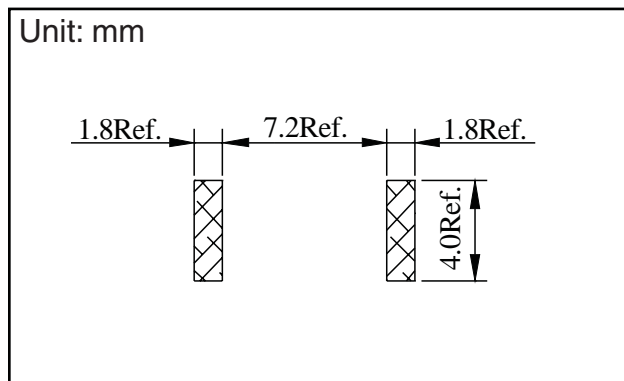
From 0.8 $\mu$ H to 330 $\mu$ H



### CHARACTERISTICS

- Description:** SMD shielded power inductor.
- Applications:** Input/output of DC/DC converters, power supplies for portable communication equipment, camcorders, LCD TVs, car radios, etc.
- Operating Temperature:** -40°C to +125°C (temp. rise included)
- Resistance to Solder Heat:** 245°C, 10 seconds.
- Isat:** Based on  $\Delta L / L_0A = 35\%$  Typ.
- Irms:** Based on Temp. rise 30°C Max.
- Inductance Tolerance:**  $\pm 30\%$
- 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.**

### PAD LAYOUT



### SPECIFICATIONS

Parts are available in  $\pm 30\%$  inductance tolerance only.

Part Number	Inductance at 100KHz ( $\mu$ H)	Q. Ref	Q Test Freq. (_Hz)	DCR Typ. (m $\Omega$ )	DCR Max. (m $\Omega$ )	SRF Typ. (MHz)	Irms Max. (A)	Isat Typ. (A)
CTSRU1048F-R80N	0.8	8	25.2M	3.6	4.8	100	7.80	8.50
CTSRU1048F-1R5N	1.5	14	7.96M	4.3	5.8	70	7.00	7.20
CTSRU1048F-2R2N	2.2	14	7.96M	5.3	7.2	55	6.50	6.30
CTSRU1048F-3R0N	3.0	14	7.96M	7.2	10.0	40	6.20	6.00
CTSRU1048F-4R7N	4.7	12	7.96M	9.5	12.5	30	5.50	4.75
CTSRU1048F-6R8N	6.8	10	7.96M	13.6	18.0	20	4.80	4.10
CTSRU1048F-8R2N	8.2	8	7.96M	15.0	20.0	18	4.60	3.80
CTSRU1048F-100N	10.0	26	2.52M	18.5	25.0	16	4.50	3.70
CTSRU1048F-150N	15.0	30	2.52M	29.0	40.0	14	3.20	2.70
CTSRU1048F-220N	22.0	22	2.52M	42.0	55.0	12	2.60	2.00
CTSRU1048F-330N	33.0	24	2.52M	63.0	84.0	10	2.10	1.70
CTSRU1048F-470N	47.0	26	2.52M	94.0	120.0	8	1.70	1.50
CTSRU1048F-560N	56.0	26	2.52M	110.0	145.0	7	1.60	1.40
CTSRU1048F-680N	68.0	24	2.52M	127.0	170.0	6	1.40	1.25
CTSRU1048F-820N	82.0	24	2.52M	149.0	200.0	5.5	1.30	1.10
CTSRU1048F-101N	100.0	26	0.796M	160.0	220.0	5	1.20	1.00
CTSRU1048F-151N	150.0	24	0.796M	235.0	305.0	4.5	1.00	0.80
CTSRU1048F-221N	220.0	20	0.796M	350.0	455.0	4	0.80	0.70
CTSRU1048F-331N	330.0	18	0.796M	490.0	640.0	3	0.65	0.52

### PHYSICAL DIMENSIONS

Size	A	B	C	D Typ.	E Typ.	F Typ.
mm	10.0 $\pm$ 0.3	10.0 $\pm$ 0.3	4.8 $\pm$ 0.3	3.4	3.2	7.4
inches	0.4 $\pm$ 0.012	0.4 $\pm$ 0.012	0.19 $\pm$ 0.012	0.13	0.12	0.30

