

## CTSRU1038F Series

From 1.5  $\mu$ H to 330  $\mu$ H



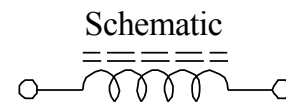
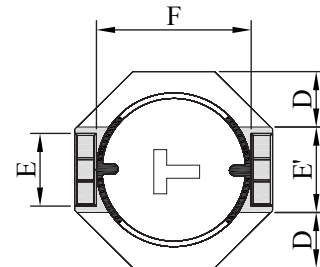
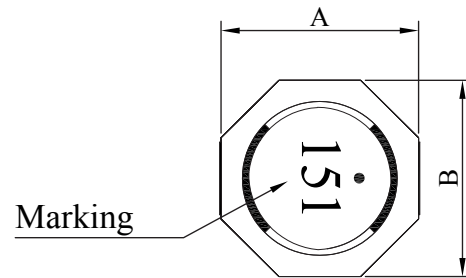
### SPECIFICATIONS

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

Part Number	Inductance at 100KHz ( $\mu$ H)	Q. Ref	Q Test Freq. (MHz)	DCR Typ. (m $\Omega$ )	DCR Max. (m $\Omega$ )	SRF Typ. (MHz)	Irms Max. (A)	Isat Typ. (A)
CTSRU1038F-1R5N	1.5	14	7.96	5.2	7.5	65	7.20	7.00
CTSRU1038F-2R2N	2.2	12	7.96	7.7	10.5	55	6.80	6.50
CTSRU1038F-3R5N	3.5	14	7.96	11.5	15.0	35	5.50	5.50
CTSRU1038F-5R0N	5.0	12	7.96	14.5	22.0	30	4.60	4.80
CTSRU1038F-6R2N	6.2	12	7.96	16.5	24.0	25	4.00	4.20
CTSRU1038F-100N	10.0	24	2.52	25.0	35.0	20	3.80	3.60
CTSRU1038F-150N	15.0	24	2.52	37.0	50.0	16	2.80	2.70
CTSRU1038F-220N	22.0	20	2.52	55.8	75.0	12	2.20	2.30
CTSRU1038F-330N	33.0	22	2.52	86.0	112.0	10	1.80	1.80
CTSRU1038F-470N	47.0	22	2.52	121.0	160.0	8	1.65	1.60
CTSRU1038F-680N	68.0	24	2.52	166.0	216.0	7	1.30	1.30
CTSRU1038F-101N	100.0	24	0.796	220.0	300.0	6	1.10	1.10
CTSRU1038F-151N	150.0	20	0.796	358.0	476.0	5	0.90	0.80
CTSRU1038F-221N	220.0	22	0.796	565.0	740.0	4	0.65	0.65
CTSRU1038F-331N	330.0	20	0.796	773.0	1000.0	3	0.55	0.52

### PHYSICAL DIMENSIONS

Size	A	B	C	D Typ.	E Typ.	E'	F Typ.
mm	10.0 $\pm$ 0.3	10.0 $\pm$ 0.3	3.8 $\pm$ 0.3	2.5	3.2	5.0 $\pm$ 0.5	7.4
inches	0.4 $\pm$ 0.012	0.4 $\pm$ 0.012	0.15 $\pm$ 0.012	0.098	0.12	0.20 $\pm$ 0.02	0.291



### 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.
- Storage Temperature:** -40°C to +125°C
- Operating Temperature:** -40°C to +125°C (Temp. rise included)
- Temperature Rise:** 40°C Max.
- Resistance to Solder Heat:** 260°C, 10 seconds.
- Isat:** Based on  $\Delta L / LOA = 35\%$  Typ.
- Irms:** Based on Temp. rise 40°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

