

# CTDRQ127F Series

From 0.47  $\mu\text{H}$  to 1000  $\mu\text{H}$



## SPECIFICATIONS

Part numbers indicate inductance tolerance available.

M =  $\pm 20\%$ , N =  $\pm 30\%$

I<sub>peak</sub>: Based on  $\Delta L/L_{OA} = 30\%$  Typ.

I<sub>rms</sub>: Based on temp. rise 40°C Typ.

Part Number	Inductance ( $\mu\text{H}$ )	Parallel Ratings			Series Ratings			
		DCR (m $\Omega$ ) Max.	I <sub>peak</sub> (A) Typ.	I <sub>rms</sub> (A) Typ.	Inductance ( $\mu\text{H}$ )	DCR (m $\Omega$ ) Max.	I <sub>peak</sub> (A) Typ.	I <sub>rms</sub> (A) Typ.
CTDRQ127F-R47N	0.47	5.5	56.00	17.90	1.676	21.6	28.00	8.940
CTDRQ127F-1R0N	1.0	6.7	40.00	15.50	3.284	26.0	20.00	7.740
CTDRQ127F-1R5N	1.5	7.6	31.10	13.50	5.428	30.6	15.60	6.770
CTDRQ127F-2R2N	2.2	9.2	25.50	12.50	8.108	33.8	12.70	6.230
CTDRQ127F-3R3N	3.3	11.0	21.50	10.40	11.320	40.0	10.80	5.230
CTDRQ127F-4R7N	4.7	13.5	16.50	8.25	19.360	50.0	8.240	4.130
CTDRQ127F-6R8N	6.8	18.3	13.30	7.34	29.550	65.6	6.670	3.670
CTDRQ127F-8R2N	8.2	19.1	12.20	6.32	35.440	71.4	6.090	3.160
CTDRQ127F-100M	10	24.1	11.20	6.04	41.880	92.1	5.600	3.020
CTDRQ127F-150M	15	33.3	9.66	5.03	56.360	129	4.830	2.510
CTDRQ127F-220M	22	50.3	7.57	4.00	91.720	192	3.780	2.000
CTDRQ127F-330M	33	66.4	6.22	3.23	135.70	265	3.110	1.610
CTDRQ127F-470M	47	89.8	5.28	2.95	188.20	353	2.640	1.470
CTDRQ127F-680M	68	123	4.44	2.44	265.90	469	2.220	1.220
CTDRQ127F-820M	82	153	4.06	2.09	319.00	578	2.030	1.040
CTDRQ127F-101M	100	175	3.64	1.96	397.20	701	1.820	0.980
CTDRQ127F-151M	150	261	3.01	1.59	579.60	1013	1.510	0.796
CTDRQ127F-221M	220	343	2.43	1.29	886.00	1380	1.220	0.645
CTDRQ127F-331M	330	540	2.01	1.04	1294.0	2172	1.010	0.522
CTDRQ127F-471M	470	865	1.68	0.85	1868.0	3300	0.838	0.427
CTDRQ127F-681M	680	1296	1.39	0.76	2707.0	4888	0.697	0.380
CTDRQ127F-821M	820	1632	1.27	0.65	3272.0	5896	0.633	0.325
CTDRQ127F-102M	1000	1992	1.14	0.61	4020.0	7202	0.571	0.307

## PHYSICAL DIMENSIONS

Size	A Max.	B Max.	C Max.	D	E	F
mm	12.50	12.50	8.0	5.0 $\pm$ 0.3	1.80 $\pm$ 0.2	7.60 $\pm$ 0.2
inches	0.49	0.49	0.31	0.20 $\pm$ 0.012	0.071 $\pm$ 0.0079	0.30 $\pm$ 0.0079

## CHARACTERISTICS

**Description:** SMD Shielded Dual Wound Inductor/Transformer.

**Applications:** As a SEPIC or flyback transformer. As a buck, boost or coupled inductor. DC/DC Converters. VRM inductor for CPU and DDR power supplies. Input and output filter chokes.

**Operating Temperature:** -40°C to +125°C (Temp. rise included)

**Resistance to Solder Heat:** 245°C, 10 Sec.

**Inductance Tolerance:**  $\pm 20\%$ ,  $\pm 30\%$

**Testing:** Inductance is tested on an HP4285A at 100KHz, 0.25V

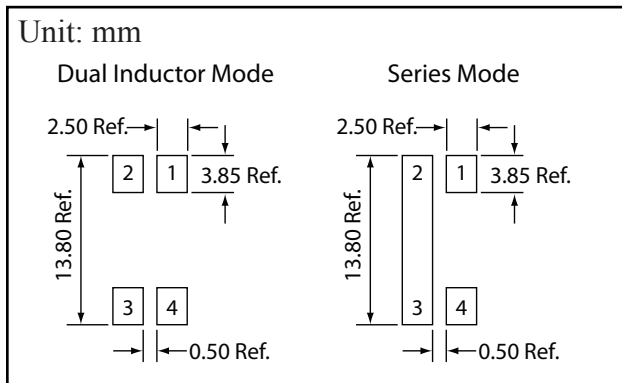
**Packaging:** Tape & Reel.

**Miscellaneous:** RoHS Compliant.

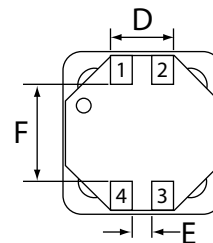
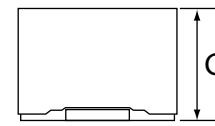
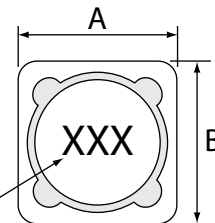
**Additional Information:** Additional electrical & physical information available upon request.

**Samples available. See website for ordering information.**

## PAD LAYOUT

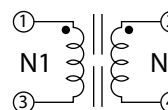


**Marking:** Inductance Code

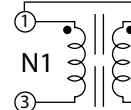


**Schematics:**

Dual Inductor



Parallel



Series

