

CTDRQ127F Series

From 0.47 μH to 1000 μH



SPECIFICATIONS

Part numbers indicate inductance tolerance available.

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

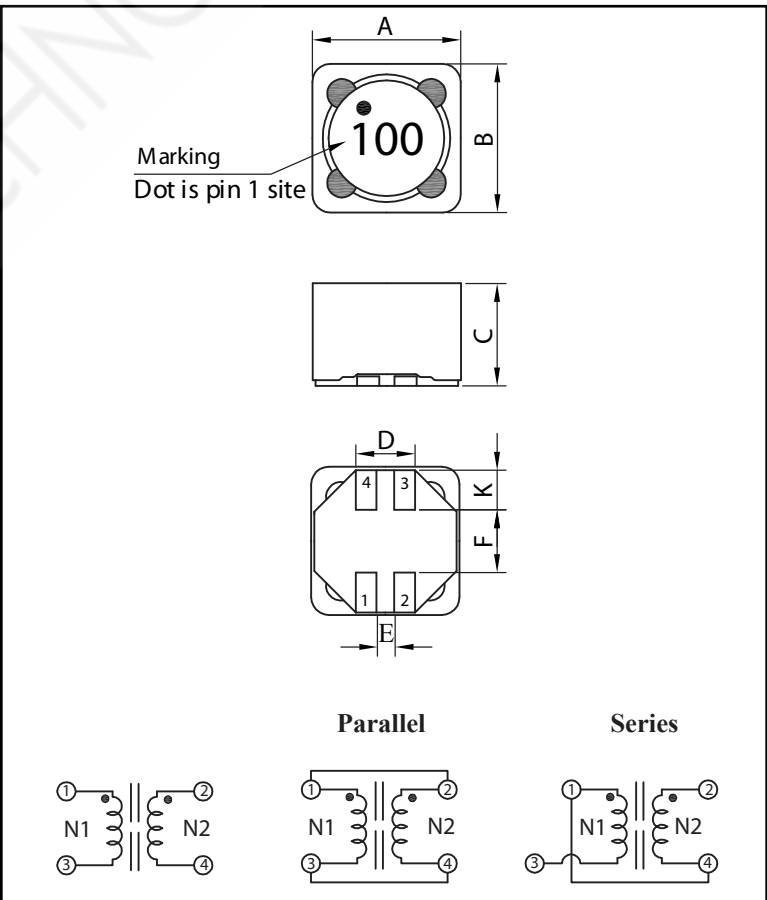
I_{peak}: Based on $\Delta L/L_{OA} = 30\%$ Typ.

I_{rms}: Based on temp. rise 40°C Typ.

Part Number	Inductance (μH)	Parallel Ratings			Series Ratings			
		DCR (m Ω) Max.	I _{peak} (A) Typ.	I _{rms} (A) Typ.	Inductance (μH)	DCR (m Ω) Max.	I _{peak} (A) Typ.	I _{rms} (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 & SCHEMATICS

Size	A	B	C	D	E	F	K
	Max.	Max.	Max.				
mm	12.50	12.50	8.0	5.0 \pm 0.3	1.80 \pm 0.2	5.0 \pm 0.3	3.50 \pm 0.5
inches	0.49	0.49	0.31	0.20 \pm 0.012	0.071 \pm 0.0079	0.20 \pm 0.012	0.13 \pm 0.02



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.

Storage Temperature: -40°C to +125°C

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

Resistance to Solder Heat: 260°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

