

## CTCDRH127-LDF

### Series

From 1.0  $\mu\text{H}$  to 1000  $\mu\text{H}$

#### ENGINEERING KIT #46



#### CHARACTERISTICS

**Description:** SMD (shielded) power inductor.

**Applications:** Power supplies for VTR, OA equipment, LCD televisions, PC notebooks, portable communication equipment, DC/DC converters, etc.

**Operating Temperature:**  $-40^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

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

**Testing:** Inductance is tested on an HP4284A at specified frequency.

**Irms:** To load current onto the components under normal ambience, which cause the temperature change as  $\Delta T = 40^{\circ}\text{C}$  or more lower current.

**Isat:** This indicates the value of current when the inductance is 25% lower than its initial value at D.C. superposition or D.C. current.

**Packaging:** Tape & Reel.

**Marking:** Parts are marked with inductance code.

**Miscellaneous:** RoHS Compliant. Magnetically shielded.

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

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

#### SPECIFICATIONS

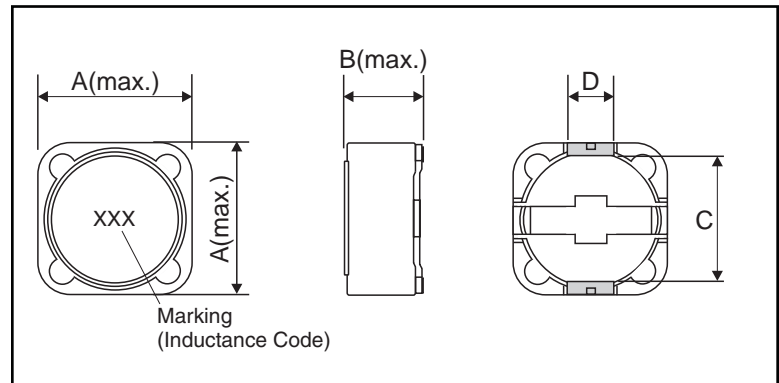
Part numbers indicate tolerance available.

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

Part Number	Inductance ( $\mu\text{H}$ )	L Test Freq. (KHz)	DCR Max. ( $\text{m}\Omega$ )	Irms (A)	Isat (A)
CTCDRH127/LDF-1R0N	1.0	100	6.5	14.0	14.0
CTCDRH127/LDF-2R4N	2.4	100	10.5	11.3	10.3
CTCDRH127/LDF-3R5N	3.5	100	12.4	9.60	9.30
CTCDRH127/LDF-4R6N	4.6	100	13.8	8.16	9.10
CTCDRH127/LDF-5R8N	5.8	100	16.2	7.70	8.60
CTCDRH127/LDF-7R4N	7.4	100	17.7	6.90	7.40
CTCDRH127/LDF-100M	10	1.0	19.5	6.21	6.70
CTCDRH127/LDF-120M	12	1.0	21.3	5.59	6.45
CTCDRH127/LDF-150M	15	1.0	26.4	5.31	5.65
CTCDRH127/LDF-180M	18	1.0	28.0	5.04	5.10
CTCDRH127/LDF-220M	22	1.0	36.4	4.78	4.70
CTCDRH127/LDF-270M	27	1.0	41.6	4.08	4.20
CTCDRH127/LDF-330M	33	1.0	53.3	3.67	3.90
CTCDRH127/LDF-390M	39	1.0	60.5	3.48	3.50
CTCDRH127/LDF-470M	47	1.0	78.0	3.13	3.25
CTCDRH127/LDF-560M	56	1.0	90.0	2.97	2.90
CTCDRH127/LDF-680M	68	1.0	120	2.67	2.60
CTCDRH127/LDF-820M	82	1.0	130	2.40	2.40
CTCDRH127/LDF-101M	100	1.0	151	2.16	2.10
CTCDRH127/LDF-121M	120	1.0	169	1.95	1.90
CTCDRH127/LDF-151M	150	1.0	227	1.76	1.80
CTCDRH127/LDF-181M	180	1.0	299	1.58	1.55
CTCDRH127/LDF-221M	220	1.0	338	1.42	1.45
CTCDRH127/LDF-271M	270	1.0	419	1.28	1.30
CTCDRH127/LDF-331M	330	1.0	471	1.16	1.20
CTCDRH127/LDF-391M	390	1.0	572	1.04	1.10
CTCDRH127/LDF-471M	470	1.0	741	0.93	1.00
CTCDRH127/LDF-561M	560	1.0	852	0.84	0.95
CTCDRH127/LDF-681M	680	1.0	1130	0.76	0.85
CTCDRH127/LDF-821M	820	1.0	1240	0.69	0.75
CTCDRH127/LDF-102M	1000	1.0	1500	0.66	0.70

#### PHYSICAL DIMENSIONS

Size	A	B	C	D
mm	12.5	8.0	7.6 $\pm$ 0.2	5 $\pm$ 0.2
inches	0.492	0.314	0.3 $\pm$ 0.007	0.2 $\pm$ 0.007



#### PAD LAYOUT

