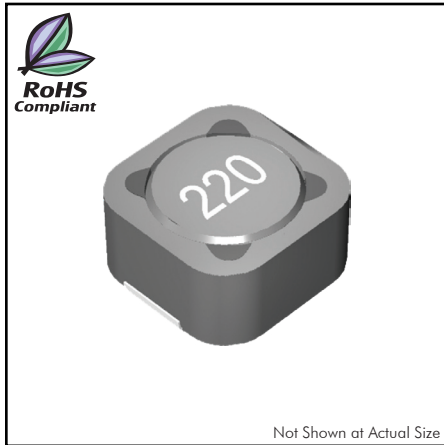


CTCDRH127-LDF

Series

From 1.0 μH to 1000 μH

ENGINEERING KIT #46



CHARACTERISTICS

Description: SMD (shielded) power inductor.

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

Operating Temperature: -40°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

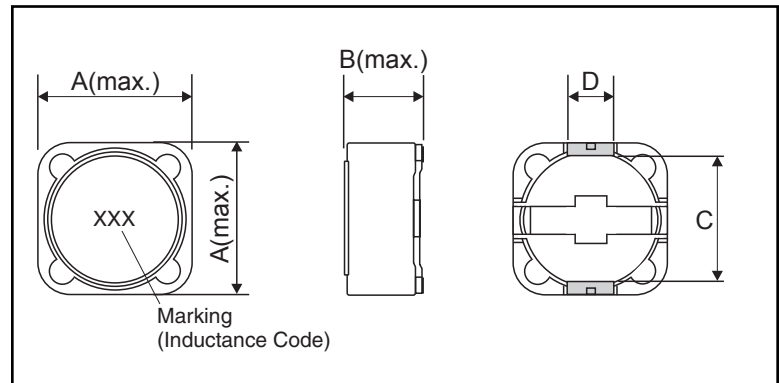
Part numbers indicate tolerance available.

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

| Part Number | Inductance (μH) | 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

