

CTDS1608F Series

From 1.0 μ H to 10,000 μ H

SPECIFICATIONS

Parts are available in $\pm 20\%$ inductance tolerance only.

| Part Number | Inductance (μ H $\pm 20\%$) | L Test Freq. (kHz) | Q Fact. Min. | Q Test Freq. (kHz) | DCR Max. (Ω) | IDC Max. (A) | SRF Typ. (MHz) |
|----------------|-----------------------------------|--------------------|--------------|--------------------|-----------------------|--------------|----------------|
| CTDS1608CF-102 | 1.0 | 100 | 30 | 200 | .040 | 3.0 | 250 |
| CTDS1608CF-152 | 1.5 | 100 | 30 | 200 | .045 | 2.8 | 125 |
| CTDS1608CF-222 | 2.2 | 100 | 40 | 200 | .050 | 1.8 | 120 |
| CTDS1608CF-332 | 3.3 | 100 | 40 | 200 | .055 | 1.6 | 120 |
| CTDS1608CF-472 | 4.7 | 100 | 40 | 200 | .060 | 1.4 | 105 |
| CTDS1608CF-682 | 6.8 | 100 | 40 | 200 | .065 | 1.2 | 50 |
| CTDS1608CF-103 | 10 | 100 | 40 | 200 | .075 | 1.0 | 38 |
| CTDS1608CF-153 | 15 | 100 | 40 | 100 | .090 | 0.8 | 33 |
| CTDS1608CF-223 | 22 | 100 | 40 | 100 | .110 | 0.7 | 25 |
| CTDS1608CF-333 | 33 | 100 | 40 | 100 | .190 | 0.6 | 20 |
| CTDS1608CF-473 | 47 | 100 | 40 | 100 | .230 | 0.5 | 20 |
| CTDS1608CF-683 | 68 | 100 | 40 | 100 | .290 | 0.4 | 15 |
| CTDS1608CF-104 | 100 | 100 | 40 | 100 | .480 | 0.3 | 10 |
| CTDS1608CF-154 | 150 | 100 | 40 | 100 | .590 | .26 | 9 |
| CTDS1608CF-224 | 220 | 100 | 40 | 100 | .770 | .22 | 6 |
| CTDS1608CF-334 | 330 | 100 | 40 | 100 | 1.4 | .20 | 5 |
| CTDS1608CF-474 | 470 | 100 | 40 | 100 | 1.8 | .19 | 4 |
| CTDS1608CF-684 | 680 | 100 | 40 | 100 | 2.2 | .18 | 3 |
| CTDS1608CF-105 | 1000 | 100 | 40 | 100 | 3.4 | .15 | 2 |
| CTDS1608CF-155 | 1500 | 100 | 50 | 100 | 4.2 | .12 | 2 |
| CTDS1608CF-225 | 2200 | 100 | 50 | 100 | 8.5 | .10 | 2 |
| CTDS1608CF-335 | 3300 | 100 | 50 | 100 | 11.0 | .08 | 1 |
| CTDS1608CF-475 | 4700 | 100 | 50 | 100 | 13.9 | .06 | 1 |
| CTDS1608CF-685 | 6800 | 100 | 50 | 100 | 25.0 | .04 | 1 |
| CTDS1608CF-825 | 8200 | 100 | 50 | 100 | 30.5 | .02 | 1 |
| CTDS1608CF-106 | 10000 | 100 | 50 | 100 | 32.8 | .02 | 0.8 |



CHARACTERISTICS

- Description:** SMD (shielded) power inductor
- Applications:** DC/DC converters, computers, LCD displays and telecommunication equipment. Can help achieve significantly longer battery life in hand held communication devices and other portable products
- Operating Temperature:** -40°C to +85°C
- Inductance Tolerance:** $\pm 20\%$
- Testing:** Inductance and Q are tested on an HP4285A at 100kHz
- Packaging:** Tape & Reel
- Marking:** Inductance code or letter identifier
- Miscellaneous:** **RoHS Compliant.** Magnetically shielded
- Additional Information:** Additional electrical & physical information available upon request.
- Samples available. See website for ordering information.**

PHYSICAL DIMENSIONS

| Size | A | B | C | D | E | F | G |
|---------------|------|------|------|------|------|------|------|
| | Max. | Max. | Max. | | | | |
| mm | 6.6 | 4.45 | 2.92 | 1.02 | 1.27 | 4.32 | 3.05 |
| inches | 0.26 | 0.18 | 0.12 | 0.04 | 0.05 | 0.17 | 0.1 |

PAD LAYOUT

