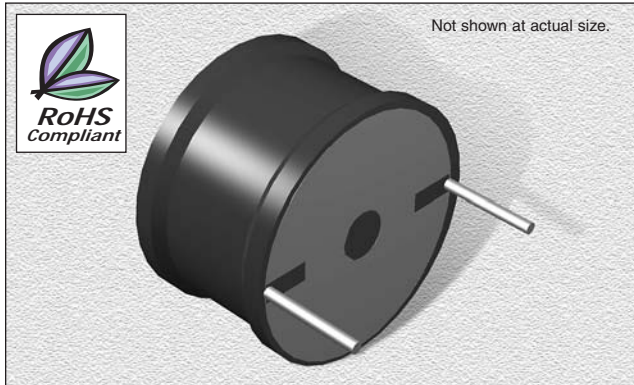


CTDR3F Series

From 1.0 μH to 4,700 μH



CHARACTERISTICS

- Description:** Radial leaded drum core inductor
- Applications:** Used in switching regulators, power amplifiers, power supplies, SCR and Triac controls, speaker crossover networks, RFI suppression and filters
- Operating Temperature:** -25°C to +85°C
- Temperature Rise:** 50°C Max. at IDC
- IDC:** Current at which inductance drops 10% Max.
- Inductance Tolerance:** $\pm 10\%$, $\pm 20\%$
- Testing:** Inductance is tested on an HP4284A at 1.0 kHz
- Packaging:** Bulk pack
- Sleeving:** Coils finished with UL-VW-1 sleeving
- Mounting:** Center hole furnished for mechanical mounting
- Miscellaneous:** RoHS Compliant available. Non-standard tolerances and other values available.
- Additional Information:** Additional electrical & physical information available upon request
- Samples available. See website for ordering information.**

SPECIFICATIONS

Parts numbers indicate available tolerance.
K = $\pm 10\%$, M = $\pm 20\%$

| Part Number | Inductance (μH) | L Test Freq. (kHz) | DCR Max. (Ω) | IDC Max. (A) |
|-------------|------------------------------|--------------------|-----------------------|--------------|
| CTDR3F-1R0M | 1.0 | 1.0 | .003 | 21 |
| CTDR3F-1R2M | 1.2 | 1.0 | .003 | 21 |
| CTDR3F-1R5M | 1.5 | 1.0 | .003 | 21 |
| CTDR3F-2R2M | 2.2 | 1.0 | .003 | 21 |
| CTDR3F-2R7M | 2.7 | 1.0 | .003 | 21 |
| CTDR3F-3R3M | 3.3 | 1.0 | .003 | 21 |
| CTDR3F-3R9M | 3.9 | 1.0 | .003 | 21 |
| CTDR3F-4R7M | 4.7 | 1.0 | .003 | 21 |
| CTDR3F-5R6M | 5.6 | 1.0 | .003 | 21 |
| CTDR3F-6R8M | 6.8 | 1.0 | .004 | 21 |
| CTDR3F-8R2M | 8.2 | 1.0 | .004 | 21 |
| CTDR3F-100M | 10 | 1.0 | .006 | 17 |
| CTDR3F-120K | 12 | 1.0 | .008 | 13.5 |
| CTDR3F-150K | 15 | 1.0 | .009 | 13.5 |
| CTDR3F-180K | 18 | 1.0 | .010 | 13.5 |
| CTDR3F-220K | 22 | 1.0 | .011 | 13.5 |
| CTDR3F-270K | 27 | 1.0 | .012 | 13.5 |
| CTDR3F-330K | 33 | 1.0 | .017 | 13.5 |
| CTDR3F-390K | 39 | 1.0 | .022 | 11.4 |
| CTDR3F-470K | 47 | 1.0 | .024 | 9.0 |
| CTDR3F-560K | 56 | 1.0 | .026 | 9.0 |
| CTDR3F-680K | 68 | 1.0 | .029 | 9.0 |
| CTDR3F-820K | 82 | 1.0 | .032 | 9.0 |
| CTDR3F-101K | 100 | 1.0 | .034 | 9.0 |
| CTDR3F-121K | 120 | 1.0 | .046 | 7.2 |
| CTDR3F-151K | 150 | 1.0 | .064 | 5.5 |
| CTDR3F-181K | 180 | 1.0 | .072 | 5.5 |
| CTDR3F-221K | 220 | 1.0 | .080 | 5.5 |
| CTDR3F-271K | 270 | 1.0 | .110 | 4.5 |
| CTDR3F-331K | 330 | 1.0 | .122 | 4.5 |
| CTDR3F-391K | 390 | 1.0 | .169 | 4.0 |
| CTDR3F-471K | 470 | 1.0 | .187 | 4.0 |
| CTDR3F-561K | 560 | 1.0 | .205 | 4.0 |
| CTDR3F-681K | 680 | 1.0 | .256 | 2.8 |
| CTDR3F-821K | 820 | 1.0 | .288 | 2.8 |
| CTDR3F-102K | 1000 | 1.0 | .426 | 2.0 |
| CTDR3F-122K | 1200 | 1.0 | .462 | 2.0 |
| CTDR3F-152K | 1500 | 1.0 | .518 | 2.0 |
| CTDR3F-182K | 1800 | 1.0 | .705 | 1.6 |
| CTDR3F-222K | 2200 | 1.0 | 1.02 | 1.3 |
| CTDR3F-272K | 2700 | 1.0 | 1.14 | 1.3 |
| CTDR3F-332K | 3300 | 1.0 | 1.27 | 1.3 |
| CTDR3F-392K | 3900 | 1.0 | 1.67 | 1.0 |
| CTDR3F-472K | 4700 | 1.0 | 1.86 | 1.0 |

PHYSICAL DIMENSIONS

| Size | A | B | C | D | E |
|--------|------|------|-----------------|------|------|
| | Max. | Max. | | Typ. | |
| mm | 22.0 | 28.0 | 15.0 \pm 2.0 | 5.59 | 22.0 |
| inches | 0.87 | 1.1 | 0.59 \pm 0.08 | 0.22 | 0.87 |

06.07.10