

SWITCHMODE/HIGH FREQUENCY - ROD CORE INDUCTORS

Description:

TRIAD high current rod core inductors from Triad Magnetics provide cost effective energy storage. By conditioning the output signal, the inductor smoothes out the current waveform to provide a more stable current. These low cost inductors are designed to be compatible with automated P.C.B. installation.



Figure A



Figure B

HIGH CURRENT ROD CORE INDUCTORS

| Type No. | Figure | ± 15% Inductance μ H | DC Rated Current | Max DC Resistance (mOhms) | Lead Diameter | Wt. Lbs. |
|----------|--------|--------------------------|------------------|---------------------------|---------------|----------|
| FIRCH-1 | A | 2.54 | 11.60A | 5.50 | .050" | .03 |
| FIRCH-2 | A | 3.05 | 9.70A | 7.30 | .045" | .03 |
| FIRCH-3 | A | 3.60 | 8.10A | 9.95 | .040" | .03 |
| FIRCH-4 | A | 5.00 | 6.80A | 14.10 | .036" | .03 |
| FIRCH-5 | A | 5.90 | 5.70A | 18.50 | .032" | .03 |
| FIRCH-6 | A | 7.22 | 4.80A | 26.10 | .028" | .03 |

ROD CORE INDUCTORS

| Type No. | Figure | 10% Inductance | DC Rated Current | ± 15% DC Resistance Ohms | Dimensions | | | | Wt. Oz. |
|----------|--------|----------------|------------------|--------------------------|------------|------|------|------|---------|
| | | | | | H | L | A | B | |
| RC-1 | B | 5.6 mH | .250A | 6.100 | .93 | .600 | .150 | .375 | .03 |
| RC-2 | B | 3.9 mH | .320A | 3.900 | .93 | .600 | .150 | .375 | .03 |
| RC-3 | B | 2.5 mH | .400A | 2.450 | .93 | .600 | .150 | .375 | .03 |
| RC-4 | B | 1.5 mH | .500A | 1.530 | .93 | .600 | .150 | .375 | .03 |
| RC-5 | B | 915.0 μ H | .625A | 1.000 | .93 | .600 | .150 | .375 | .03 |
| RC-6 | B | 560.0 μ H | .800A | .600 | .93 | .600 | .150 | .375 | .03 |
| RC-7 | B | 450.0 μ H | 1.000A | .420 | .93 | .600 | .150 | .375 | .03 |
| RC-8 | B | 250.0 μ H | 1.250A | .210 | .93 | .600 | .150 | .375 | .03 |
| RC-9 | B | 200.0 μ H | 1.600A | .180 | .93 | .600 | .150 | .375 | .03 |
| RC-10 | B | 100.0 μ H | 2.000A | .098 | .93 | .600 | .150 | .375 | .03 |
| RC-11 | B | 75.0 μ H | 2.500A | .070 | .93 | .600 | .150 | .375 | .03 |

Technical Notes:

Figure A

1. Rated current 40°C temperature rise.



Figure A

Figure B

1. Rated current 10 amps per pin manimum.
2. Rated current renders approximately 40°C temperature rise.



Figure B