

THROUGH-HOLE RADIAL HIGH CURRENT POWER CHOKES FAAIRD02 SERIES



FEATURES:

High Saturation Material
Polyolefin Shrink Tubing
Low DC Resistance
High Reliability Low cost

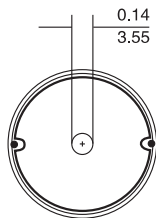
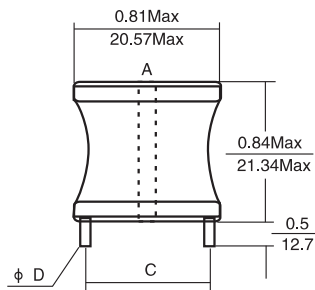
OPTIONS:

Packaging: Tape & Reel is Standard
(Qty: 1000 pcs)
Bulk packaging available for smaller quantities
Tolerance: 10% is standard
tighter tolerances available.

COMMON APPLICATIONS:

Switching Regulators
RFI Suppression Filters
SCR and TRIAC Controls
Automotive Systems

PHYSICAL CHARACTERISTICS



DIMENSIONS: **INCHES**
mm

STANDARD SPECIFICATIONS

| Part Number | L [μH] @1KHz | DCR [Ω Max] | IDC [A Max] | Dim[Inches/mm] C Approx. | Dim[Inches/mm] D Nom. |
|---------------|--------------------|----------------|----------------|--------------------------------|-----------------------------|
| FAAIRD02-1R0M | 1.0 | 0.003 | 11.4 | 0.63/16.00 | 0.071/1.80 |
| FAAIRD02-1R2M | 1.2 | 0.003 | 11.4 | 0.63/16.00 | 0.071/1.80 |
| FAAIRD02-1R5M | 1.5 | 0.003 | 11.4 | 0.63/16.00 | 0.071/1.80 |
| FAAIRD02-1R8M | 1.8 | 0.003 | 11.4 | 0.63/16.00 | 0.071/1.80 |
| FAAIRD02-2R2M | 2.2 | 0.004 | 11.4 | 0.63/16.00 | 0.071/1.80 |
| FAAIRD02-2R7M | 2.7 | 0.005 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-3R3M | 3.3 | 0.005 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-3R9M | 3.9 | 0.005 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-4R7M | 4.7 | 0.005 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-5R6M | 5.6 | 0.006 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-6R8M | 6.8 | 0.007 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-8R2M | 8.2 | 0.007 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-10K | 10 | 0.009 | 11.4 | 0.63/16.00 | 0.063/1.60 |
| FAAIRD02-120K | 12 | 0.009 | 11.4 | 0.63/16.00 | 0.055/1.40 |
| FAAIRD02-150K | 15 | 0.013 | 9.0 | 0.63/16.00 | 0.055/1.40 |
| FAAIRD02-180K | 18 | 0.018 | 7.2 | 0.63/16.00 | 0.051/1.30 |
| FAAIRD02-220K | 22 | 0.019 | 7.2 | 0.63/16.00 | 0.051/1.30 |
| FAAIRD02-270K | 27 | 0.026 | 5.5 | 0.63/16.00 | 0.051/1.30 |
| FAAIRD02-330K | 33 | 0.029 | 5.5 | 0.60/15.24 | 0.043/1.10 |
| FAAIRD02-390K | 39 | 0.030 | 5.5 | 0.60/15.24 | 0.043/1.10 |
| FAAIRD02-470K | 47 | 0.035 | 5.5 | 0.62/15.74 | 0.043/1.10 |
| FAAIRD02-560K | 56 | 0.039 | 5.5 | 0.62/15.74 | 0.039/1.00 |
| FAAIRD02-680K | 68 | 0.053 | 4.8 | 0.62/15.74 | 0.039/1.00 |
| FAAIRD02-820K | 82 | 0.060 | 4.8 | 0.62/15.74 | 0.039/1.00 |
| FAAIRD02-101K | 100 | 0.080 | 4.0 | 0.62/15.74 | 0.035/0.90 |
| FAAIRD02-121K | 120 | 0.090 | 4.0 | 0.62/15.74 | 0.035/0.90 |
| FAAIRD02-151K | 150 | 0.098 | 4.0 | 0.62/15.74 | 0.032/0.80 |
| FAAIRD02-181K | 180 | 0.110 | 4.0 | 0.62/15.74 | 0.032/0.80 |
| FAAIRD02-221K | 220 | 0.150 | 2.8 | 0.62/15.74 | 0.032/0.80 |
| FAAIRD02-271K | 270 | 0.213 | 2.0 | 0.60/15.24 | 0.030/0.75 |
| FAAIRD02-331K | 330 | 0.305 | 1.6 | 0.60/15.24 | 0.030/0.75 |
| FAAIRD02-391K | 390 | 0.320 | 1.6 | 0.60/15.24 | 0.026/0.65 |
| FAAIRD02-471K | 470 | 0.355 | 1.6 | 0.60/15.24 | 0.026/0.65 |
| FAAIRD02-561K | 560 | 0.388 | 1.6 | 0.60/15.24 | 0.026/0.65 |
| FAAIRD02-681K | 680 | 0.430 | 1.6 | 0.60/15.24 | 0.026/0.65 |
| FAAIRD02-821K | 820 | 0.590 | 1.3 | 0.60/15.24 | 0.024/0.60 |
| FAAIRD02-102K | 1000 | 0.818 | 1.0 | 0.60/15.24 | 0.020/0.50 |
| FAAIRD02-122K | 1200 | 1.14 | 0.8 | 0.60/15.24 | 0.020/0.50 |
| FAAIRD02-152K | 1500 | 1.26 | 0.8 | 0.60/15.24 | 0.020/0.50 |
| FAAIRD02-182K | 1800 | 1.39 | 0.8 | 0.60/15.24 | 0.018/0.45 |
| FAAIRD02-222K | 2200 | 1.54 | 0.8 | 0.60/15.24 | 0.018/0.45 |

ELECTRONICAL SCHEMATIC



TECHNICAL INFORMATION

Inductance Testing: HP4284A, HP4285A or equivalent
RDC: QuadTech 1880 Milliohm meter
Q - HP4342A
SRF - HP4191A or HP4194A
Rated Current L value drop 10% typ. at IDC against its initial value
Temperature rise 40°C Max Reference ambient temperature
Solderability: 75% of the lead wire shall be covered
Soldering Methods: Wave, Reflow
Operating Temperature: -25°C to +85°C
Storage Temperature: -55°C to +125°C
Terminal bending strength: 24.5N Min
Moisture resistance: $\Delta L/L \leq \pm 10\%$ $\Delta Q/Q \leq \pm 25\%$

Note: All specifications subject to change without notice.

Note: 1. K = $\pm 10\%$, M = $\pm 20\%$