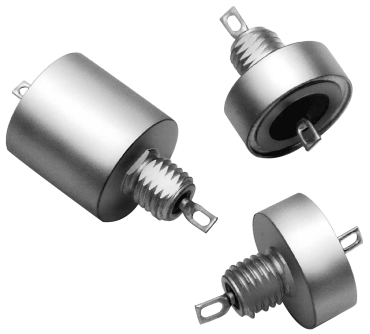
PRODUCT DATASHEET

# Hermetically Sealed Threaded Case Filters

0.690 ø FT Circuit

This series of filters features hermetic glass seals and high EMI filtering performance. They are excellent for critical applications that demand high reliability in the toughest environmental conditions and provide broad-band high performance EMI filtering from 10 KHz to over 10 GHz.

- MIL-PRF-15733 and DSCC 84084 QPL filters available
- Voltage ratings from 50 V to 400 VDC/240AC, 400 Hz
- Impervious to high moisture environments, solvents and severe environmental conditions
- High temperature terminal construction
- D-slotted bushings
- High reliability testing available



## Product Specifications

*See page 2 for physical dimensions*

### .690 ø FT Circuit Standard

| Part Number | MIL No | Figure | Rated Voltage 85°C DC | 85°C AC | 125°C DC | 125°C AC | I Amp | Min Cap µF | DCR Max Ohms | Max L In | Max L (mm) | Minimum Insertion Loss (dB) 30 KHz | 150 KHz | 300 KHz | 1 MHz | 10 MHz | 100 MHz | 1 GHz |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9932-100-6004 | — | 1 | 200 | — | 150 | | 15 | 2.600 | 0.005 | 0.702 | (17.831) | 10 | 29 | 39 | 50 | 60 | 70 | 70 |
| 54-310-001 | — | 1 | 300 | — | 300 | 125 | 15 | 0.500 | 0.005 | 0.560 | (14.224) | 7 | 20 | 28 | 39 | 55 | 70 | 70 |
| 54-310-005 | — | 2 | 250 | — | 200 | 125 | 25 | 0.500 | 0.005 | 0.740 | (18.796) | 8 | 20 | 25 | 36 | 50 | 64 | 70 |
| 54-310-009 | — | 1 | 450 | 240 | 400 | 240 | 15 | 0.250 | 0.005 | 0.560 | (14.224) | — | 14 | 19 | 30 | 50 | 70 | 70 |
| 9932-100-6005 | — | 1 | 450 | 240 | 400 | 240 | 15 | 0.250 | 0.005 | 0.560 | (14.224) | — | 14 | 19 | 30 | 50 | 70 | 70 |
| 54-310-019 | — | 2 | 150 | — | 100 | — | 25 | 3.0 | 0.005 | 0.740 | (18.796) | — | 38 | 45 | 54 | 60 | — | 70 |

### .690 ø FT Circuit MIL Qualified

| Part Number | M15733 MIL No | Figure | Rated Voltage 85°C DC | 85°C AC | 125°C DC | 125°C AC | I Amp | Min Cap µF | DCR Max Ohms | Max L In | Max L (mm) | Minimum Insertion Loss (dB) 30 KHz | 150 KHz | 300 KHz | 1 MHz | 10 MHz | 100 MHz | 1 GHz |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54-310-039 | 34-0037 | 1 | — | — | 275 | 125 | 15 | 0.200 | 0.005 | 0.575 | (14.605) | 5 | 15 | 21 | 31 | 51 | 70 | 70 |

### .690 ø FT Circuit DSCC 84084 Product

| Part Number | 84084 No | Figure | Rated Voltage 85°C DC | 85°C AC | 125°C DC | 125°C AC | I Amp | Min Cap µF | DCR Max Ohms | Max L In | Max L (mm) | Minimum Insertion Loss (dB) 30 KHz | 150 KHz | 300 KHz | 1 MHz | 10 MHz | 100 MHz | 1 GHz |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 54-310-042 | -001 | 1 | — | — | 400 | 230 | 15 | 0.150 | 0.005 | 0.560 | (14.224) | — | 10 | 16 | 26 | 40 | 52 | 70 |

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Spectrum Control reserves the right to modify product specifications, materials, finishes, dimensions, manufacturing processes, and designs without prior notice, provided such changes do not adversely affect the published form, fit, function, or electrical performance of the product. Customers are responsible for verifying current specifications at the time the order is placed.

## Physical Dimensions

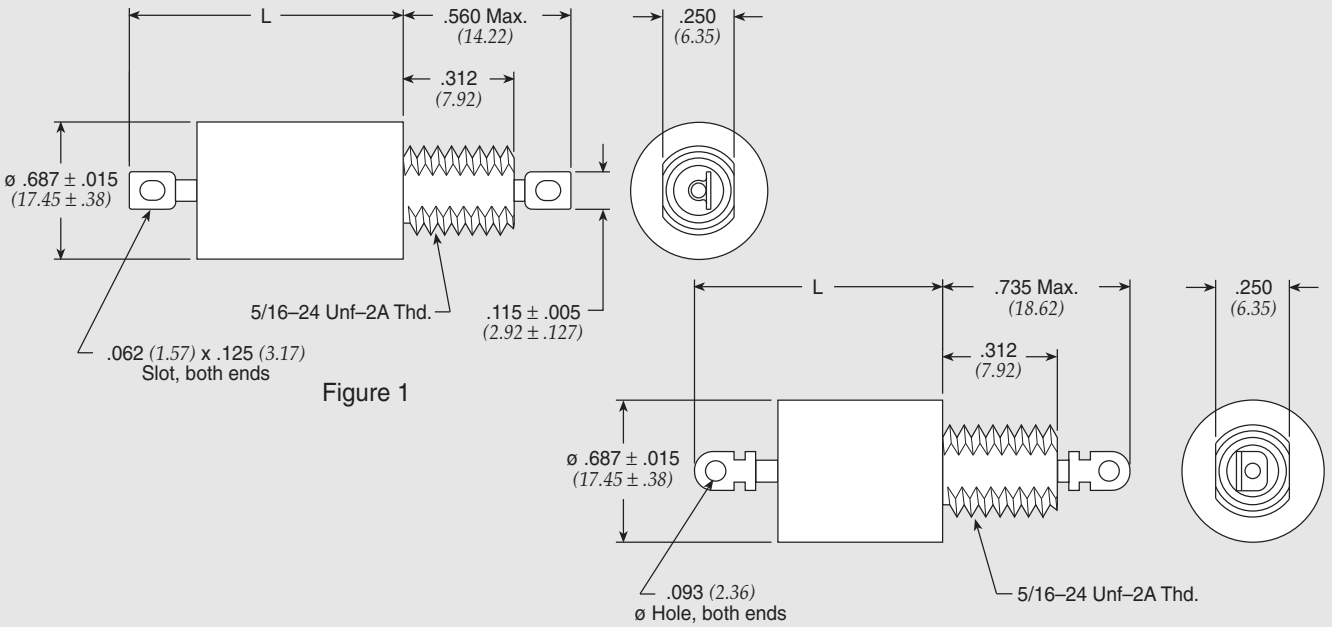


Figure 1

Figure 2

Dimensions in inches *(mm)*