

# High Current/High Voltage Resin Sealed Filters

High current filters are ideal for use in high current 5 volt logic buss, but also can be used for  $\pm 48$  VDC telephone rack buss, high current switch mode power supplies and DC charging systems. High voltage filters find use in high voltage power supplies and applications requiring U.L. Hi-Pot.

## Features

- Current ratings up to 100 Amps
- Continuous voltage ratings up to 1250 VDC/240 VAC (400Hz)
- U.L. 1459 recognized and CSA C22.2 approved versions available
- Rugged bolt-in style for easy installation



## Installation Notes

for Figure 1 & 2 — see below (Figure 3 see page 16)

### 1. Mounting installation torque

**Method A:** Mounting in full threaded thru hole

**Maximum torque:** 96 in-lbs

**Method B:** Mounting w/hardware

**Maximum torque:** 84 in-lbs

### 2. Terminal installation torque

**Maximum torque:** 20 in-lbs

Note: Use two wrench method to install terminal hardware

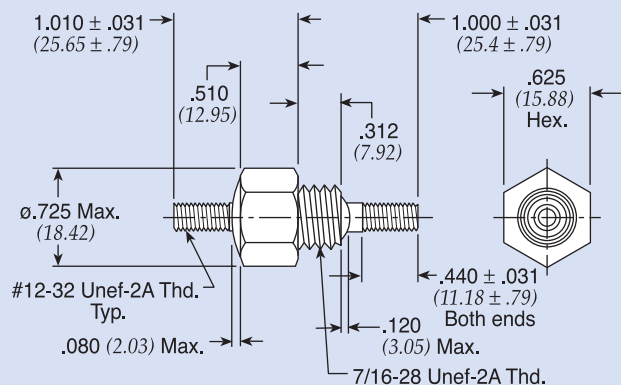


Figure 1

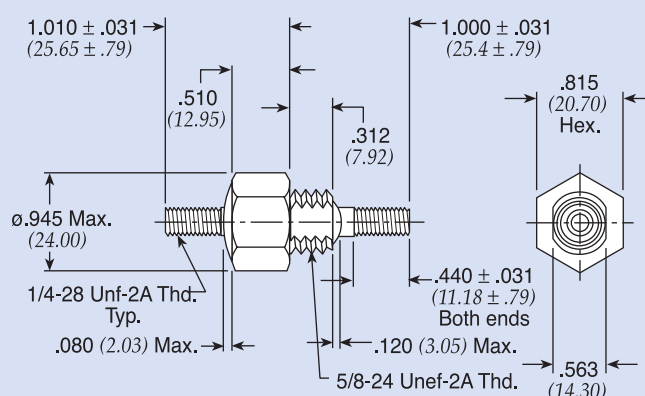


Figure 2

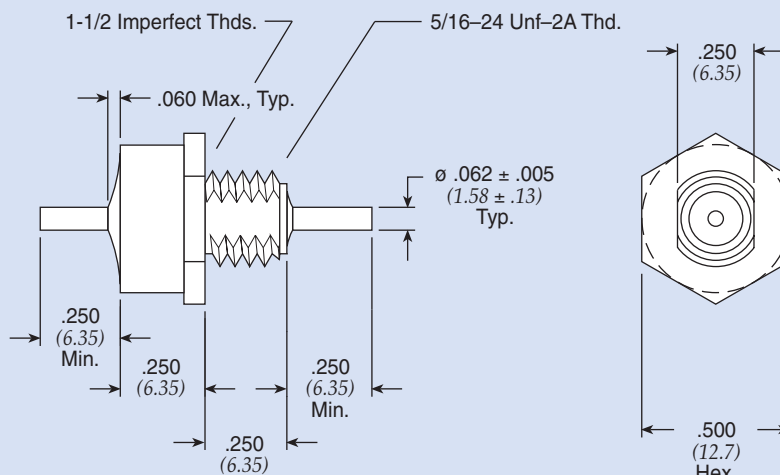
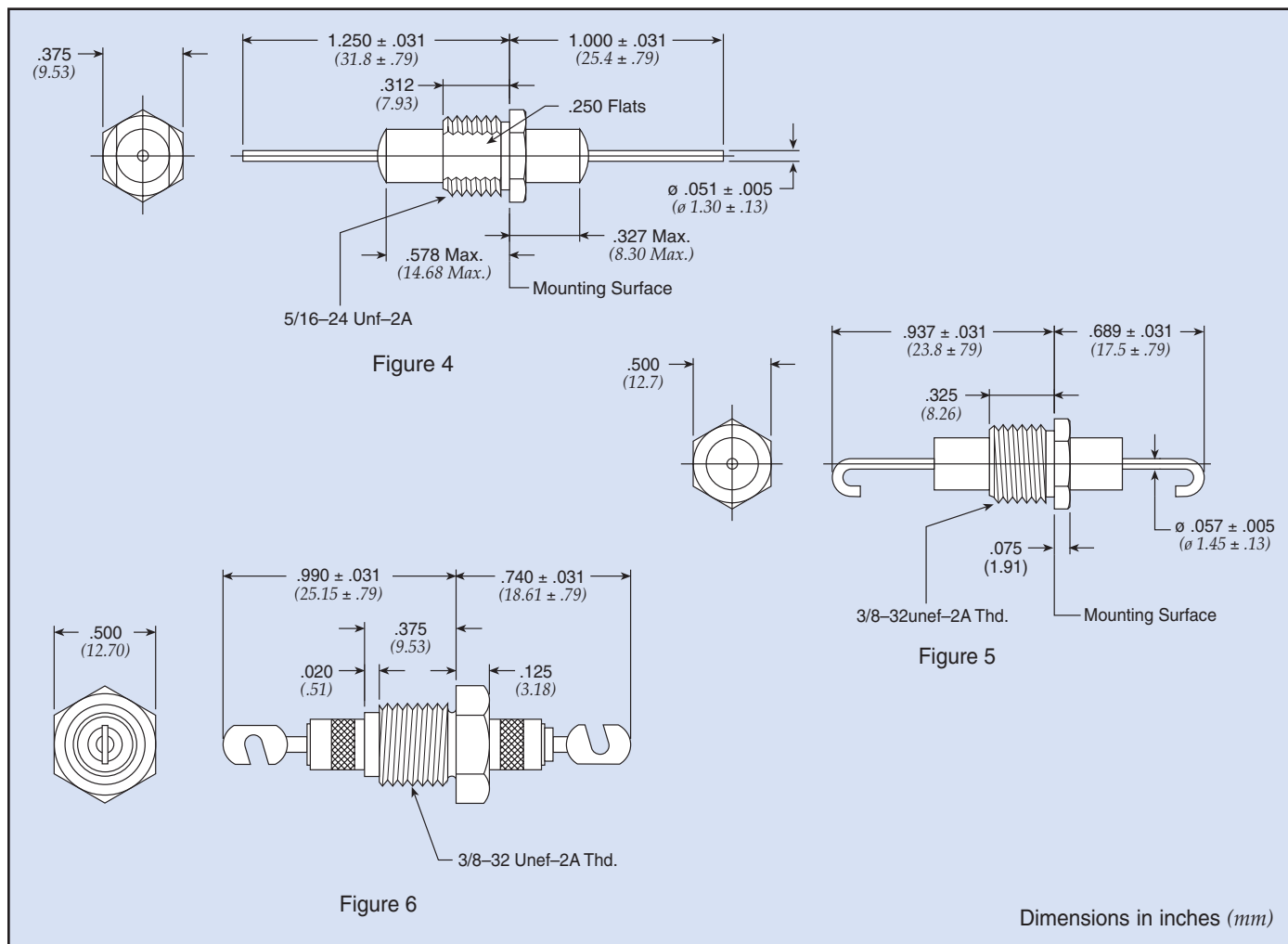


Figure 3

Dimensions in inches (mm)

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## High Current High Voltage Feed-thru



| Part Number  | Figure | Rated Voltage<br>125°C |       | I<br>Amp | CKT | Min<br>Cap    | Minimum Insertion Loss (dB) |          |           |           |            |            |          |           |
|--------------|--------|------------------------|-------|----------|-----|---------------|-----------------------------|----------|-----------|-----------|------------|------------|----------|-----------|
|              |        | DC                     | AC*** |          |     |               | 1<br>MHz                    | 3<br>MHz | 10<br>MHz | 30<br>MHz | 100<br>MHz | 300<br>MHz | 1<br>GHz | 10<br>GHz |
| 54-848-005*  | 1      | 60                     | —     | 50       | C   | 0.22 µF       | 20                          | 30       | 40        | 50        | 50         | 50         | 50       | 50        |
| 54-853-001*  | 2      | 60                     | —     | 50       | C   | 0.22 µF       | 20                          | 30       | 40        | 50        | 50         | 50         | 50       | 50        |
| 54-853-004 € | 2      | 200                    | 140   | 100      | C   | 0.22 µF       | 20                          | 30       | 40        | 50        | 50         | 50         | 50       | 50        |
| 54-848-008   | 1      | 200                    | 140   | 100      | C   | 0.22 µF       | 20                          | 30       | 40        | 50        | 50         | 50         | 50       | 50        |
| 54-844-001** | 3      | 600                    | 240   | 25       | C   | 4700 pF ± 20% | —                           | —        | 12        | 20        | 30         | 33         | 50       | 50        |
| 54-844-002** | 3      | 600                    | 240   | 25       | C   | 0.01 µF ± 20% | 3                           | 7        | 20        | 25        | 35         | 40         | 57       | 57        |
| 54-763-008   | 4      | 750                    | —     | 25       | C   | 1000 pF       | —                           | —        | —         | 10        | 20         | 28         | 28       | 28        |
| 54-763-009   | 4      | 750                    | —     | 25       | C   | 4000 pF       | —                           | —        | 10        | 22        | 32         | 35         | 35       | 40        |
| 54-789-003   | 5      | 1250                   | —     | 25       | C   | 4000 pF       | —                           | —        | 6         | 20        | 30         | 35         | 35       | 35        |
| † 1280-060 € | 6      | 2500                   | —     | 25       | Pi  | 1500 pF       | —                           | —        | 5         | 15        | 50         | 50         | 50       | 50        |

† Also available through Spectrum Control's authorized distributors.

€ Also available through Spectrum Control's authorized European distributors/agents.

\* Denotes parts that are UL recognized to UL 60950 and certified to CSA C22.2

\*\* Denotes parts that meet 1500 VAC Dielectric Withstanding Voltage per UL 1283 and CSA C22.2

\*\*\* AC Voltage to be 400Hz

# Mouser Electronics

Authorized Distributor

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[54-763-009](#) [54-789-003](#) [54-844-001](#) [54-848-008](#) [54-844-002](#)