

# Miniature Solder-in Filters

These filters are ideal for microwave applications such as attenuators and oscillators, and perform well in high impedance circuits where large capacitance values are not practical.

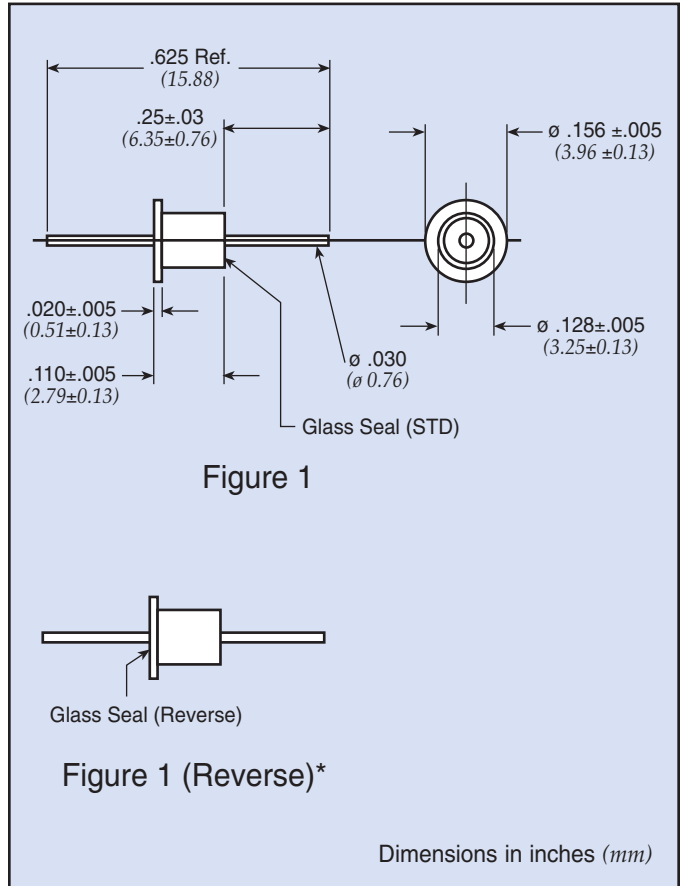
## Features

- Miniature size to allow effective use of space
- Standard capacitance values from 5pF to .030μF
- Voltage ratings to 200 VDC/115 VAC 0–400 Hz
- Hermetically sealed on one end allows for thru-hole sealing between compartments
- High temperature construction meets MIL-F-28861 solderability and resistance to soldering heat requirements
- Available in MIL-C-11015 versions — see page 239
- Gold plating compatible with gold bonding techniques

## Marking

Color dot standard as follows:

- 101 Green – 100pF
- 272 Red – 2700pF
- 501 Brown – 500pF
- 502 Blue – 5000pF
- 102 Purple – 1000pF
- 153 Pink – 15000pF
- 122 White – 1200pF
- 000 None – 10pF max



## Miniature Solder-in C Circuit

| Part Number*   | Figure | Rated Voltage<br>125°C |     | I<br>Amp | Min<br>Cap | Minimum Insertion Loss (dB) |           |           |            |            |          |           |
|----------------|--------|------------------------|-----|----------|------------|-----------------------------|-----------|-----------|------------|------------|----------|-----------|
|                |        | DC                     | AC  |          |            | 1<br>MHz                    | 10<br>MHz | 30<br>MHz | 100<br>MHz | 300<br>MHz | 1<br>GHz | 10<br>GHz |
| SCI-9900-153   | 1      | 50                     |     | 5        | 0.015 μF   | 7                           | 25        | 30        | 40         | 40         | 60       | 60        |
| SCI-9900-303   | 1      | 50                     |     | 5        | 0.030 μF   | 10                          | 30        | 35        | 45         | 50         | 55       | 55        |
| † SCI-9910-272 | 1      | 100                    |     | 5        | 2700 pF    | —                           | 10        | 18        | 25         | 33         | 40       | 50        |
| † SCI-9910-502 | 1      | 100                    |     | 5        | 5000 pF    | —                           | 15        | 20        | 30         | 35         | 45       | 55        |
| SCI-9900-000   | 1      | 200                    |     | 5        | 4 pF max.  | —                           | —         | —         | —          | —          | 10       | 10        |
| † SCI-9920-101 | 1      | 200                    | 115 | 5        | 100 pF     | —                           | —         | —         | 3          | 10         | 20       | 28        |
| † SCI-9920-501 | 1      | 200                    | 115 | 5        | 500 pF     | —                           | —         | —         | 15         | 22         | 35       | 40        |
| † SCI-9920-122 | 1      | 200                    | 115 | 5        | 1200 pF    | —                           | 5         | 10        | 20         | 28         | 35       | 45        |

\* For reverse glass seal add an "R" to the end of the part number (SCI-9900-153R).

† Also available through Spectrum Control's authorized distributors.