

# Miniature Solder-in Filters 9900 Series

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 .033μF
- Voltage ratings to 200 VDC/115 VAC 0–400 Hz
- Hermetically sealed on one end allows for through-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 CF10
- Gold plating compatible with gold bonding techniques

## Marking C Circuit

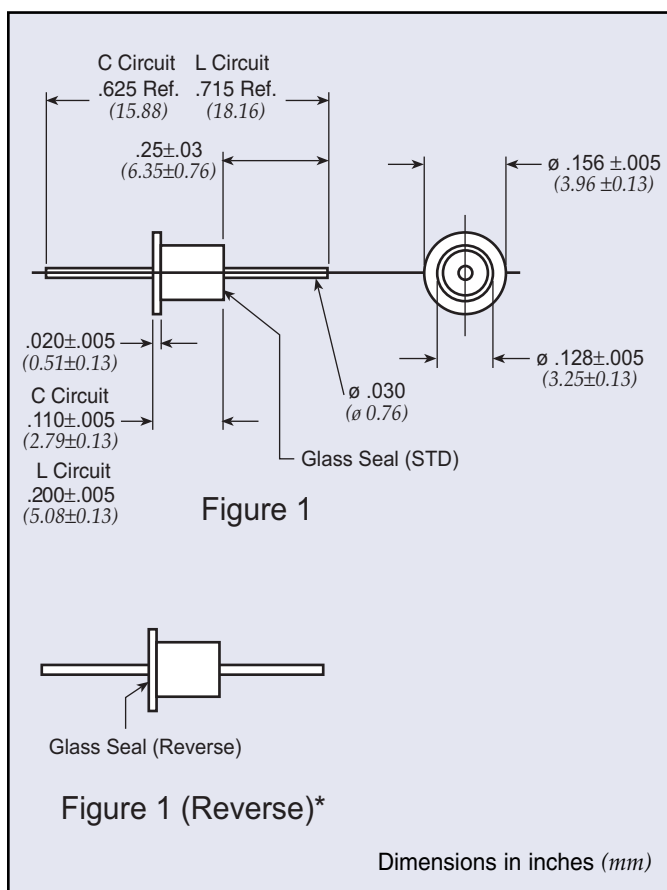
Color dot standard as follows:

|                       |                       |
|-----------------------|-----------------------|
| ● 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 |

## Marking L Circuit

Color dot standard as follows:

|                       |                       |
|-----------------------|-----------------------|
| ● 100 Violet – 10pF   | ● 103 2White – .01μF  |
| ● 250 Blue – 25pF     | ● 153 2White – .015μF |
| ● 102 White – 1000pF  | ● 273 2Red – 27000pF  |
| ● 152 White – 1500pF  | ● 333 2Red – .033μF   |
| ● 502 Yellow – 5000pF |                       |



# Miniature Solder-in Filters 9900 Series

## 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 $\mu$ F | 7                           | 25        | 30        | 40         | 40         | 60       | 60        |
| SCI-9900-303   | 1      | 50                     |     | 5        | 0.030 $\mu$ F | 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 API's authorized distributors.

Parts are RoHS Compliant

## Miniature Solder-in L 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 | 100<br>MHz | 1<br>GHz | 10<br>GHz |
| SCI-9980-100 | 1      | 200                    |    | 10       | 10 pF        | —                           | —         | —          | 7        | 20        |
| SCI-9980-101 | 1      | 200                    |    | 10       | 100 pF       | —                           | —         | 5          | 22       | 35        |
| SCI-9980-102 | 1      | 200                    |    | 10       | 1000 pF      | —                           | 8         | 25         | 40       | 42        |
| SCI-9980-103 | 1      | 200                    |    | 10       | .01 $\mu$ F  | 8                           | 27        | 48         | 65       | 65        |
| SCI-9980-122 | 1      | 200                    |    | 10       | 1200 pF      | —                           | 8         | 28         | 42       | 50        |
| SCI-9980-152 | 1      | 200                    |    | 10       | 1500 pF      | —                           | 10        | 28         | 43       | 53        |
| SCI-9980-153 | 1      | 200                    |    | 10       | .015 $\mu$ F | 10                          | 28        | 50         | 65       | 65        |
| SCI-9980-250 | 1      | 200                    |    | 10       | 25 pF        | —                           | —         | —          | 13       | 25        |
| SCI-9980-272 | 1      | 200                    |    | 10       | 2700 pF      | 8                           | 13        | 32         | 45       | 55        |
| SCI-9980-273 | 1      | 50                     |    | 10       | 27,000 pF    | 13                          | 33        | 53         | 75       | 75        |
| SCI-9980-333 | 1      | 200                    |    | 10       | .033 $\mu$ F | 13                          | 35        | 55         | 75       | 75        |
| SCI-9980-501 | 1      | 200                    |    | 10       | 500 pF       | —                           | —         | 18         | 37       | 38        |
| SCI-9980-502 | 1      | 200                    |    | 10       | 5000 pF      | 8                           | 17        | 35         | 47       | 55        |

\* Reverse seal available. Add R at the end of the part number. (SCI-9980-102R).

Note: Hi-rel versions available. Add R after the first dash. (SCI-R9980-102).

Lt circuit part number series SCI-9981-XXX.

Parts are RoHS Compliant

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