SPECTRUM CONTROL INC.

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

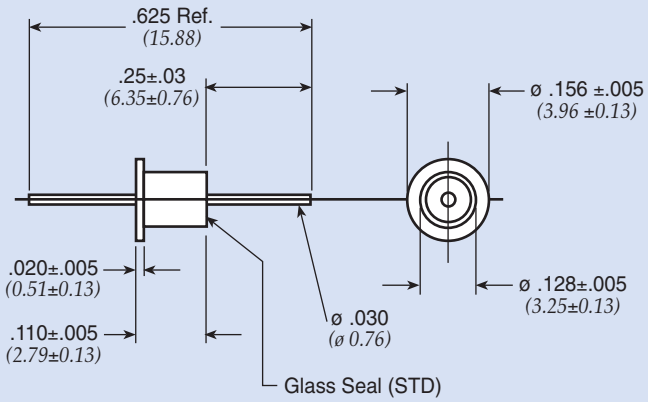

Figure 1

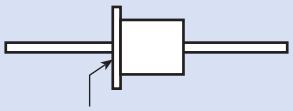

Figure 1 (Reverse)*

Dimensions in inches *(mm)*

Miniature Solder-in C Circuit

Part Number*	Figure	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	Min Cap	Minimum Insertion Loss (dB) 1 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 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.

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