

### Solder-in Filters - C Circuit

Solder-in filters are ideal for use in critical areas where space does not allow use of mounting tools or hardware. The solder-in feature also allows installation in unison with other board mounted components. Primarily used in filtering signal/data lines and DC power lines.

#### Features

- Small size to allow effective use of space
- Voltage ratings to 750 VDC
- Multiple circuit configurations: C, L & Pi available
- High temperature construction to prevent reflow during installation
- MIL-PRF-15733 QPL versions available

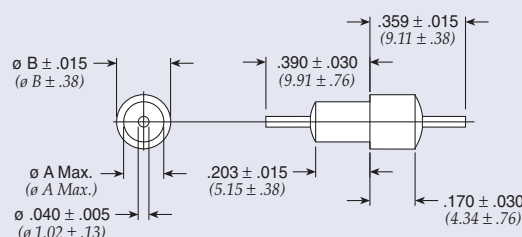


Figure 1

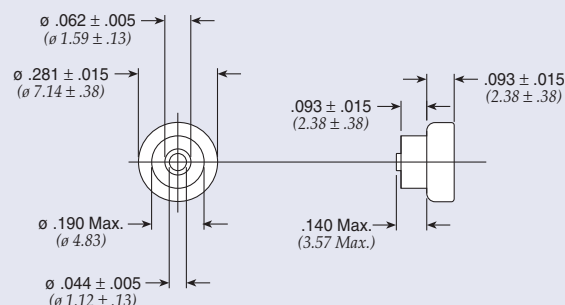


Figure 2

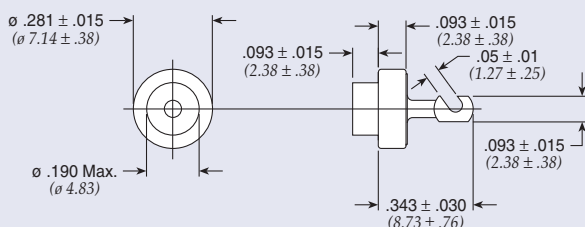


Figure 3

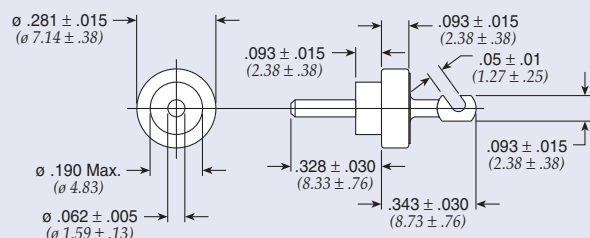


Figure 4

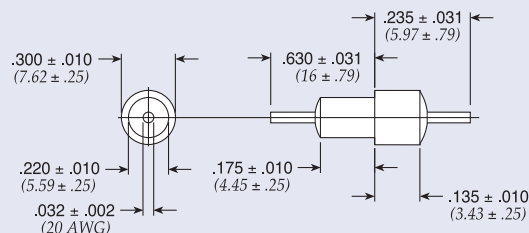


Figure 5

Dimensions in inches (mm)

# Solder-in Filters - C Circuit

Part Number	See Pg. 1 for Fig.	A		B		Rated Voltage 125°C DC	I Amp	Cap*	Minimum Insertion Loss (dB)						
		In	(mm)	In	(mm)				1 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
54-786-003	1	0.156	(3.96)	0.203	(5.16)	50	10	0.30 µF	32	47	54	60	66	70	70
54-785-002	1	0.125	(3.18)	0.184	(4.67)	100	10	0.05 µF (min)	16	33	41	45	48	50	50
54794002X5R101M	4	—	—	—	—	250	25	100 pF ± 20%	—	—	—	—	10	20	20
54803004X5R101M	3	—	—	—	—	250	25	100 pF ± 20%	—	—	—	—	10	20	20
54802002X5R101M	2	—	—	—	—	250	25	100 pF ± 20%	—	—	—	—	10	20	20
† 54794002X5R471M	4	—	—	—	—	250	25	470 pF ± 20%	—	—	—	12	22	25	25
† 54803004X5R471M	3	—	—	—	—	250	25	470 pF ± 20%	—	—	—	12	22	25	25
54802002X5R471M	2	—	—	—	—	250	25	470 pF ± 20%	—	—	—	12	22	25	25
† 54802002X5V102P	2	—	—	—	—	250	25	1000 pF	—	—	—	15	25	35	40
† 54803004X5V102P	3	—	—	—	—	250	25	1000 pF	—	—	—	15	25	35	40
† 54794002X5V102P	4	—	—	—	—	250	25	1000 pF	—	—	—	15	25	35	40
† 54-786-077	5	—	—	—	—	750	10	1000pF	—	4	—	20	25	35	40

† Also available through Spectrum Control's authorized distributors.

\* Tolerances are +100/-0% unless noted.