Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

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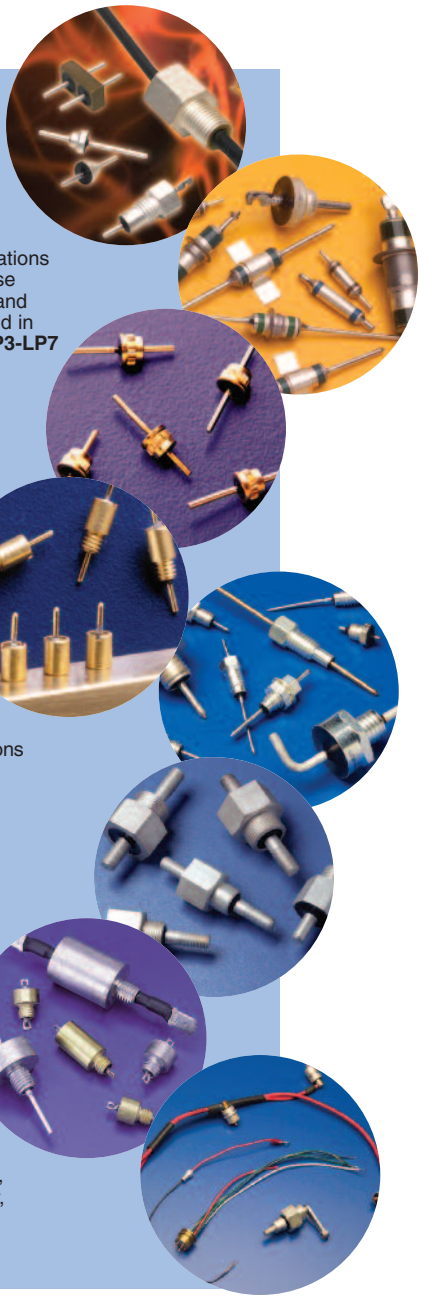
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

Low Pass EMI Filters

the industry's most complete line of EMI filters gives you more style, size, IL performance and cost alternatives



Solder-In Filters offer an ideal solution for applications in critical areas where space does not allow for use of mounting tools or hardware. Available in C, Pi and standard L circuit configurations and primarily used in filtering signal/data lines and AC power lines… **LP3-LP7**

9900 Series Filters have a knurled design allowing them to be pressed into place creating a reliable mechanical bond making them an excellent choice for applications where soldering is undesirable… **LP8-LP11**

Spec Spin Filters are an excellent choice for applications that require many lines to be filtered in close proximity to each other due to their space saving #2-56 threaded miniature EMI spanner design. These filters are designed without a hex and do not require soldering for installation… **LP12**

Resin Sealed Filters provide excellent environmental protection in a rugged case that is resin sealed at both ends and easily mounted with a tapped hole or through hole. These filters are provided in C, L and Pi configurations with metric threading available… **LP13-LP24**

High Current Resin Sealed Filters are ideal for use in high current 5 volt logic buss, as well as ±48 VDC telephone rack buss, high current switch mode power supplies and DC charging systems. These filters feature rugged bolt-in style for easy installation… **LP25-LP26**

Hermetically Sealed Filters feature hermetic glass seals and high EMI filtering performance making them highly reliable in the toughest environmental conditions. These filters are available with C, L, Pi, T and double T configurations with MIL-F-15733 and MIL-F-28861 QPL filters available… **LP27-LP42**

Value Added Assemblies offer flexible solutions by allowing you to add connectors, modify terminations or add wire harnesses, thereby lowering your cost of acquisition and assembly, reducing your production time/costs and inventory, all while giving you a filter assembly that meets your unique design challenges… **LP43**

Low Pass EMI Advantages

API Technologies' Spectrum Control brand was founded in 1968 as a designer and manufacturer of Electromagnetic Interference (EMI) filters. Today, API continues that work, combining knowledge with excellence. These many years of experience have yielded an engineering-driven team that understands how and where potential EMI problems exist in an electronic system and how to best eliminate them. With an extensive library of standard products and a willingness to develop an application-specific custom solution, our customers count on us to help them satisfy global EMC standards while meeting demanding design parameters.

- Wide range of package sizes, mounting options and circuit configurations offering maximum design flexibility
- Develop custom application-specific solutions addressing your mechanical and electrical requirements
- High reliability construction… built in accordance to MIL-PRF-15733 or MIL-PRF-28861
- Over 800 standard QPL products and DSCC part numbers
- Effective filtering up to 18 GHz
- Reliability testing available for customer specific requirements

For complete specs and drawings, visit eis.apitech.com/low_pass_filters.asp

API TECHNOLOGIES • 8061 Avonia Rd. • Fairview, PA 16415 • Ph: 814-474-1571 • Fax: 814-474-3110 • eis.apitech.com
API TECHNOLOGIES' SPECTRUM CONTROL GmbH • Hansastrasse 6 • 91126 Schwabach, Germany • Phone: (49)-9122-795-0 • Fax: (49)-9122-795-58

api technologies corp.
Spectrum Control

Solder-in Filters

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-F-15733 QPL versions available

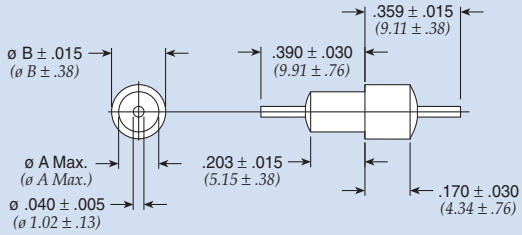


Figure 1

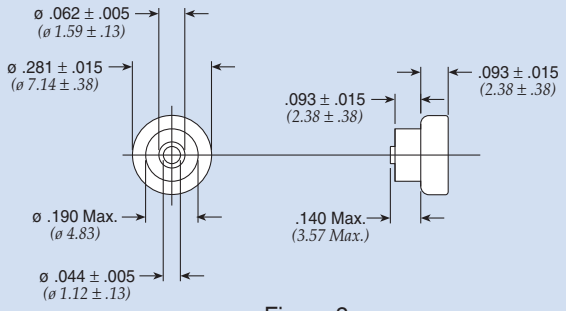


Figure 2

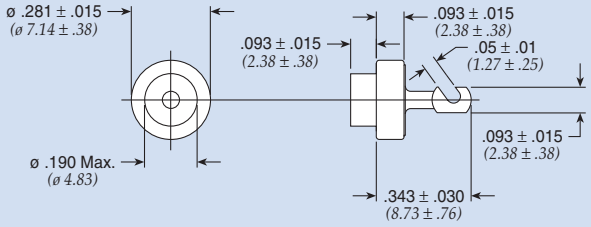


Figure 3

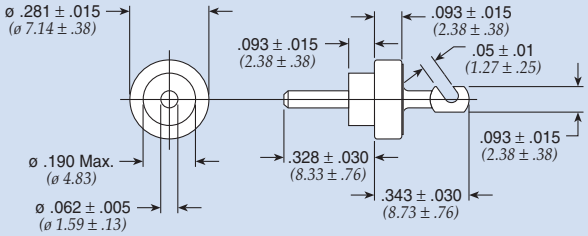


Figure 4

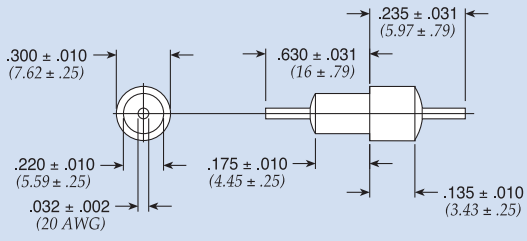


Figure 5

Dimensions in inches *(mm)*

Solder-in Filters

Solder-in C Circuit

Part Number	See Pg. LP3 for Fig.	A In	A (mm)	B In	B (mm)	Rated Voltage 125°C DC	I Amp	Cap*	Minimum Insertion Loss (dB) 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 API's authorized distributors.

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

Solder-in Filters

Solder-in Pi Circuit

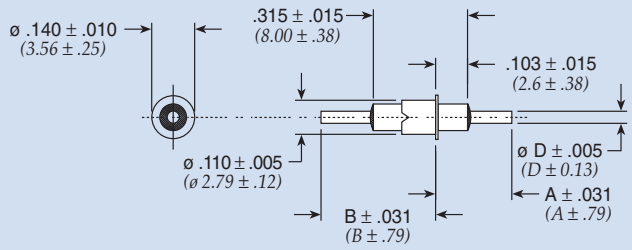


Figure 1

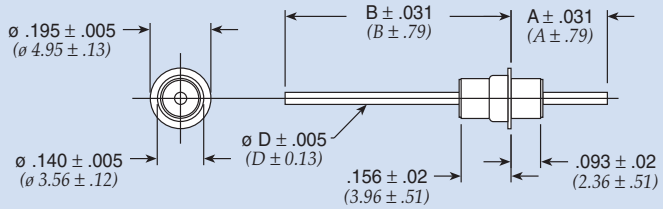


Figure 2

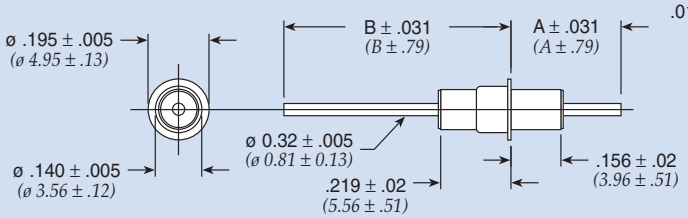


Figure 3

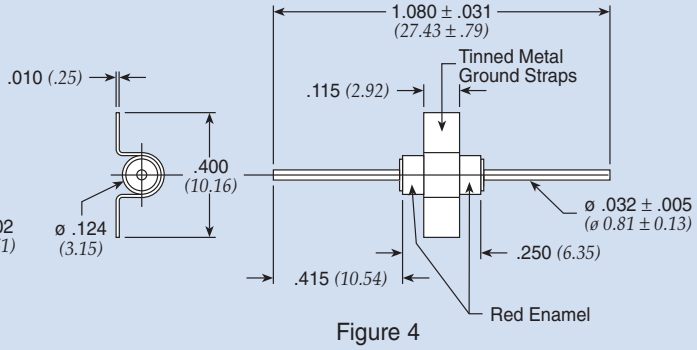


Figure 4

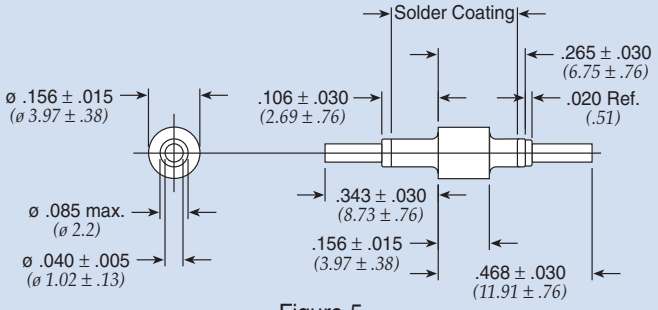


Figure 5

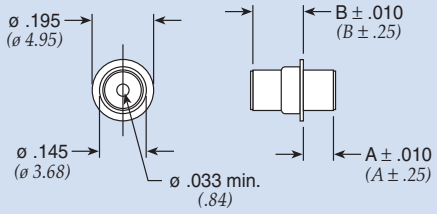


Figure 6

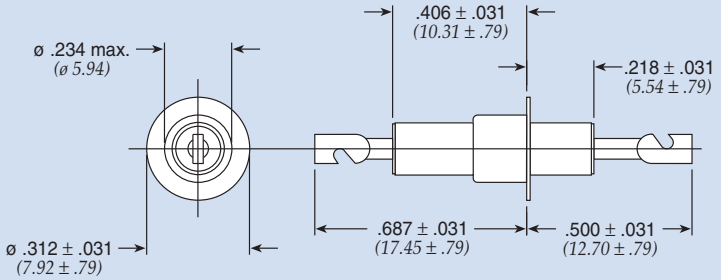


Figure 7

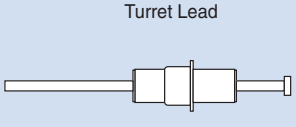


Figure 8

Dimensions in inches *(mm)*

Solder-in Filters

Solder-in Pi Circuit

Part Number	M15733 MIL Number	See Pg. LP5 for Fig.	A In	A (mm)	B In	B (mm)	D In	D (mm)	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
51-703-013*	/62-0003	3	0.312	*(7.92)*	0.469	*(11.91)*	0.032	*(0.81)*	70	—	10	1500 pF	—	5	12	50	50	65	65
51-750-309*	/62-0004	2	0.268	*(6.81)*	0.780	*(19.81)*	0.032	*(0.81)*	70	—	10	0.012 µF	5	22	50	70	70	65	65
†**1234-000*** €	—	2	0.257	*(6.53)*	0.780	*(19.81)*	0.032	*(0.81)*	70	—	10	0.012 µF	5	25	50	70	70	70	70
51-749-304	—	4	—	—	—	—	—	—	70	—	10	0.012 µF	5	25	50	70	70	65	65
1234-001	—	4	—	—	—	—	—	—	70	—	10	0.012 µF	5	25	50	70	70	65	65
†**51-750-301***	—	2	0.250	*(6.35)*	0.780	*(19.81)*	0.032	*(0.81)*	70	—	10	0.012 µF	5	25	50	70	70	70	70
†**1233-000*** €	—	3	0.312	*(7.92)*	0.780	*(19.81)*	0.032	*(0.81)*	70	—	10	0.022 µF	7	35	60	70	70	70	70
†**51-750-302***	—	3	0.312	*(7.92)*	0.780	*(19.81)*	0.032	*(0.81)*	70	—	10	0.022 µF	7	25	60	70	70	70	70
51-750-313	/51-0002	3	0.312	*(7.92)*	0.780	*(19.81)*	0.032	*(0.81)*	70	—	10	0.022 µF	7	25	60	70	70	70	70
†**51-723-303**	—	5	—	—	—	—	—	—	200	—	10	1300 pF	—	5	15	30	45	55	55
51-713-010	/62-0002	1	1.140	*(28.96)*	1.277	*(32.44)*	0.032	*(0.81)*	200	—	10	1500 pF	—	5	12	45	50	70	70
†**1251-001** €	—	1	1.109	*(28.17)*	1.206	*(30.63)*	0.032	*(0.81)*	200	—	10	1500 pF	—	5	15	40	50	70	70
51-703-001*	—	3	0.312	*(7.92)*	0.406	*(10.31)*	0.032	*(0.81)*	200	—	10	1500 pF	—	8	17	45	65	70	70
†**1203-050** €	—	3	0.312	*(7.92)*	0.406	*(10.31)*	0.032	*(0.81)*	200	—	10	1500 pF	—	5	15	45	50	70	70
51-703-012*	/62-0001	3	0.312	*(7.92)*	0.406	*(10.31)*	0.032	*(0.81)*	200	140	10	1500 pF	—	3	15	45	50	70	70
51-713-002	—	1	1.103	*(28.01)*	1.212	*(30.78)*	0.032	*(0.81)*	200	—	10	1500 pF	—	5	12	40	70	70	70
1214-029	—	2	0.288	*(7.31)*	0.780	*(19.81)*	0.032	*(0.81)*	200	—	10	1750 pF	—	5	15	50	60	60	70
†**1214-007** €	—	6	0.093	*(2.36)*	0.157	*(3.99)*	—	—	200	—	10	1750 pF	—	5	15	35	50	60	60
51-707-002*	—	2	0.288	*(7.31)*	0.780	*(19.81)*	0.032	*(0.81)*	200	—	10	1750 pF	—	8	17	50	65	70	70
†**1214-001***	—	2	0.288	*(7.31)*	0.780	*(19.81)*	0.032	*(0.81)*	200	—	10	1750 pF	—	5	15	50	50	60	60
†**51-707-006***	/33-0001	2	0.288	*(7.31)*	0.780	*(19.81)*	0.032	*(0.81)*	200	90	10	1750 pF	—	5	15	50	50	60	60
51-707-007	/33-0002	2	0.288	*(7.31)*	0.780	*(19.81)*	0.032	*(0.81)*	200	90	10	1750 pF	—	5	15	50	50	60	60
51-707-026	/66-0001	6	0.288	*(7.31)*	0.157	*(3.99)*	—	—	200	—	10	1750 pF	—	5	15	35	50	50	50
†**51-750-322**	—	2	1.123	*(28.52)*	1.347	*(34.21)*	0.040	*(1.02)*	200	—	10	3000 pF	—	7	25	50	65	65	65
51-703-007*	/51-0001	3	0.312	*(7.92)*	0.406	*(10.31)*	0.032	*(0.81)*	200	200	10	5500 pF	—	15	30	55	65	70	70
1223-012	—	1	0.240	*(6.10)*	0.360	*(9.14)*	0.040	*(1.02)*	200	—	15	3000 pF	—	7	25	50	65	65	65
†**1204-050** €	—	7	0.210	*(5.34)*	—	—	—	—	500	—	25	3000 pF	—	8	25	50	65	70	70
51-704-002	/40-0001	7	0.234	*(5.94)*	—	—	—	—	500	350	25	3000 pF	—	7	25	55	65	70	70

* Denotes parts with turret on one end per Figure 8.
† Also available through API's authorized distributors.
€ Also available through API's authorized European distributors/agents.

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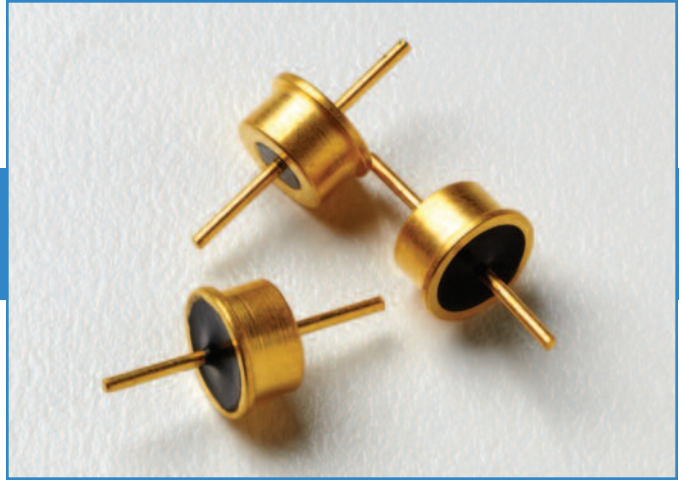
Large Diameter Solder-in High Temp Filters



Features

- .400" diameter mounting vs .128" diameter mounting
- High temperature construction withstands 300°C installation temperatures
- Increased capacitance values than standard 9900 series - up to 1.2uF
- EMI filtering from 500KHz up to 10GHz
- 15 Amp current rating
- Ideal for low to medium impedance circuits where large amounts of capacitance to ground can be tolerated (feed-thru "C" circuit)
- Glass seal one end provides protection from hostile environments and maintain hermeticity
- Rugged monolithic discoidal capacitor construction
- Gold plated suited for gold bonding
- Designed to be soldered into a package, bracket or bulkhead
- Reverse seal available
- Special lead length and end terminations available

Large Diameter Solder-in High Temp Filters

Part Number	Circuit	AMP	DC Voltage	Min Cap (µf)	Minimum Insertion Loss (dB)					
					500 KHz	1 MHz	10 MHz	100 MHz	1 GHz	10 GHz
SCI-9945-125H	C	15	50	1.2	33	37	52	70	70	70
SCI-9945-504H	C	15	100	.50	26	34	42	58	70	70
SCI-9945-754H	C	15	100	.75	31	37	43	62	70	70
SCI-9945-105H	C	15	100	1.0	31	40	48	64	70	70
SCI-9945-503HAC	C	15	200*	.050	7	15	34	42	70	70
SCI-9945-154HAC	C	15	200*	.15	17	24	38	50	70	70
SCI-9945-103H	C	15	400	.010	—	4	20	34	50	60
SCI-9945-503H	C	15	400	.050	7	15	34	44	70	70

* Rated 200VDC or 125VAC/400Hz

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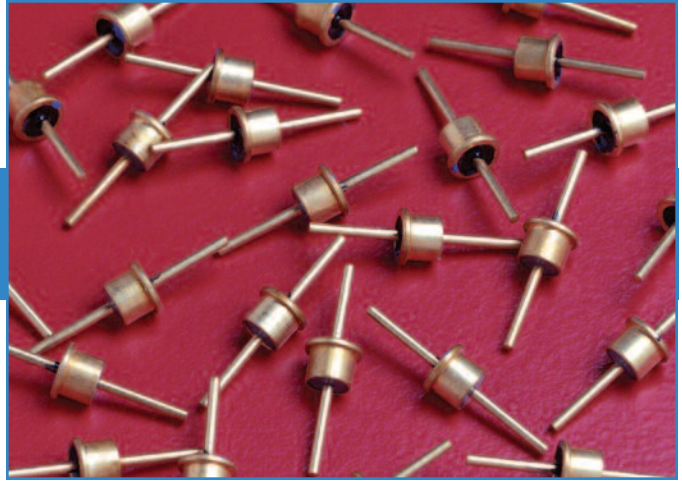
Miniature Solder-in Filters
9900 Series



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

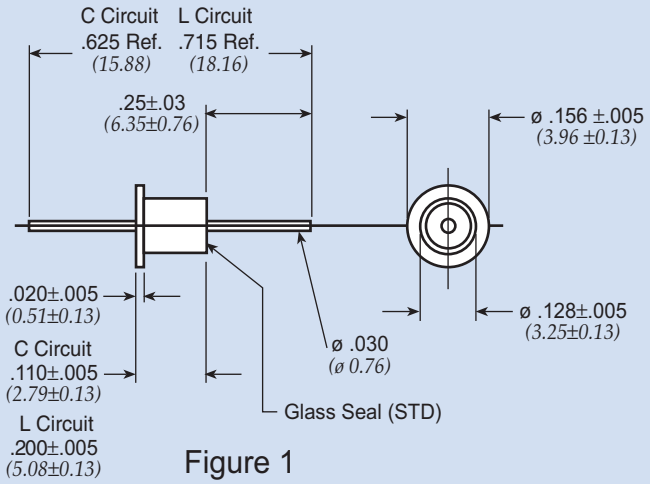


Figure 1

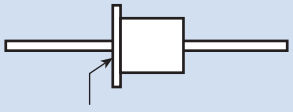


Figure 1 (Reverse)*

Dimensions in inches *(mm)*

Marking C Circuit

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

Marking L Circuit

Color dot standard as follows:

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

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Miniature Solder-in Filters
9900 Series

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 API's authorized distributors.
Parts are RoHS Compliant

Miniature Solder-in L Circuit

Part Number*	Figure	Rated Voltage 125°C DC	I Amp	Min Cap	Minimum Insertion Loss (dB) 1 MHz	10 MHz	100 MHz	1 GHz	10 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 uF	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 uF	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 uF	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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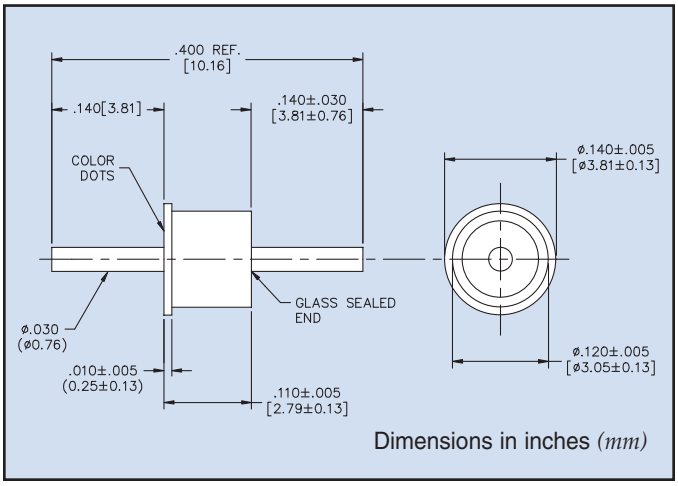
Spectrum Control

Spec Mini Solder-in Feed-Thru Filters

API Technologies miniature solder-in filters are hermetically sealed on one end for thru-hole sealing between compartments allowing it to be soldered into a package, bracket, or bulkhead while maintaining hermetically. These mini EMI filters are ideal for a variety of products intended for use in the microwave frequency spectrum including oscillators, attenuators, and synthesizers. The high temperature construction meets military requirements for solderability and resistance to soldering heat and its high-purity gold plating provides excellent compatibility with gold bonding techniques.

Features

- .120" diameter mounting
- Capacitance values from 5pF to .027µF
- RoHS compliant
- Reverse seal available
- High temperature construction



Dimensions in inches *(mm)*

Part Number	DC Amps	Working Voltage	Cap (µf)	Minimum Insertion Loss (dB)					
				500 KHz	1 MHz	10 MHz	100 MHz	1 GHz	10 GHz
SCI-9909-008	5	200	5	—	—	—	—	—	5
SCI-9909-009	5	200	10	—	—	—	—	5	20
SCI-9909-010	5	200	25	—	—	—	—	10	25
SCI-9909-011	5	200	50	—	—	—	—	10	25
SCI-9909-012	5	200	100	—	—	—	3	20	28
SCI-9909-013	5	200	250	—	—	—	5	22	30
SCI-9909-014	5	200	500	—	—	—	15	35	40
SCI-9909-015	5	200	1000	—	—	5	20	35	45
SCI-9909-016	5	200	1500	—	—	5	22	35	45
SCI-9909-017	5	100	2700	—	—	10	25	40	50
SCI-9909-018	5	100	5000	—	—	15	30	45	55
SCI-9909-019	5	50	10,000	—	4	21	35	50	60
SCI-9909-020	5	50	27,000	—	10	28	42	55	65

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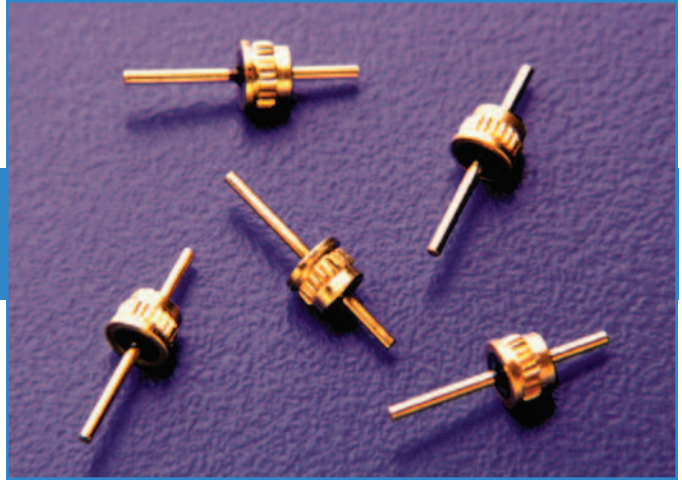
Spec Mini-Press 9900 Series



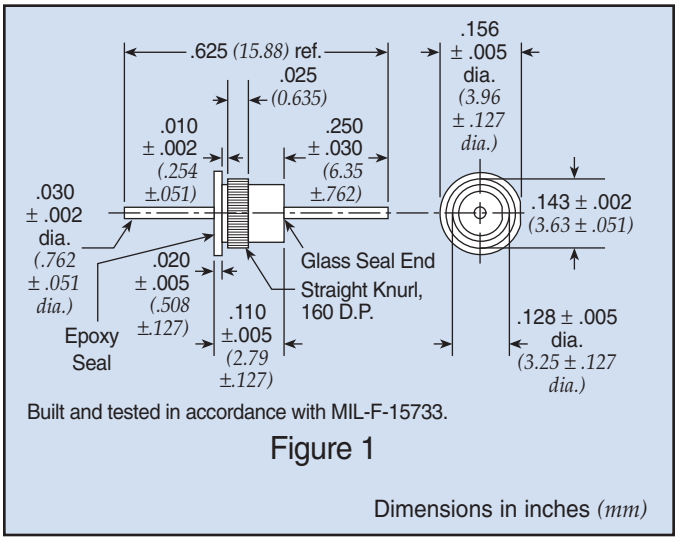
This new knurled filter is designed to be pressed into place and create a reliable mechanical bond. This feature makes it an excellent selection for applications where soldering is undesirable. Suitable plating is available that allows gold bonding to the terminals.

Applications

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

Installation

- .136" to .137" (3.45-3.48mm) diameter hole
- Hole must be free of all insulating materials.
- Installation tool must have a hole of sufficient depth and diameter to accept the terminal of the filter.
- Installation force must be applied gradually and smoothly until the flange of the filter is seated against the receiving part (request installation instructions).



Built and tested in accordance with MIL-F-15733.

Figure 1

Dimensions in inches *(mm)*

Mechanical Specifications

Installation . . . . . Press-in

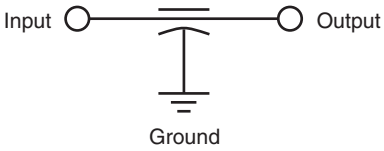
Plating . . . . . Gold

Seal . . . . . Glass sealed on one end, resin sealed on the other end

Termination Options . . . . . Plating suitable for gold bonding

Operating Temperature . . . . -55°C to +125°C

Circuit Schematic



Insertion Tool

Part Number: SCI-9925-200

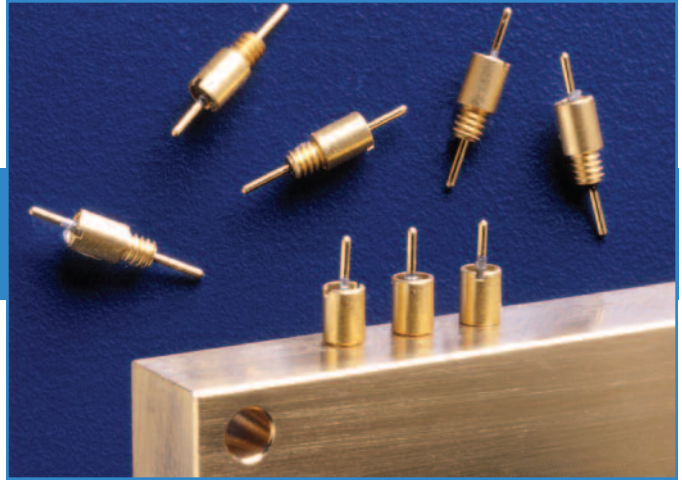
Part Number	Figure	Rated Voltage 125°C DC	I Amp	Cap	Minimum Insertion Loss (dB) 1 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
†SCI-9925-153	1	50	5	0.015 µF +100%/-0%	7	25	30	40	40	60	60
†SCI-9925-303	1	50	5	0.030 µF +100%/-0%	10	30	35	45	50	55	55
†SCI-9925-502	1	100	5	5000 pF +100%/-0%	—	15	20	30	35	45	55
†SCI-9925-000	1	200	5	10 pF max.	—	—	—	—	—	10	10
†SCI-9925-101	1	200	5	100 pF +100%/-0%	—	—	—	3	10	20	28
†SCI-9925-501	1	200	5	500 pF +100%/-0%	—	—	—	15	22	35	40
†SCI-9925-122	1	200	5	1200 pF +100%/-0%	—	5	10	20	28	35	45
SCI-9925-272	1	200	5	2700 pF +100%/-0%	—	10	18	25	33	40	50

† Also available through API's authorized distributors.
Note: Parts are RoHS Compliant

API TECHNOLOGIES • 8061 Avonia Rd. • Fairview, PA 16415 • Ph: 814-474-1571 • Fax: 814-474-3110 • eis.apitech.com
API TECHNOLOGIES' SPECTRUM CONTROL GmbH • Hansastrasse 6 • 91126 Schwabach, Germany • Phone: (49)-9122-795-0 • Fax: (49)-9122-795-58

api technologies corp.
Spectrum Control

Spec Spin Filters



API Technologies' Spectrum Control brand introduces the new space saving #2-56 threaded miniature EMI spanner filter. This new threaded filter is designed without a hex and does not require soldering for installation. These features make it an excellent selection for applications that require many lines to be filtered in close proximity. The easy swap out also allows for flexibility in filter replacement and capacitance substitution. Easy filter substitution also allows for flexibility in filter placement. Custom design queries are always welcome.

Applications

API's Spectrum Control brand spanner filter offers superior insertion loss over a broad frequency range when compared to surface mount components. The filter is available in capacitance values up to 10,000 pF, and is featured in a microcircuit package used in microwave applications such as frequency synthesizers, power amplifiers, MMW radio, and is ideal for commercial and high-reliability applications.

Electrical Specifications

Operating Temperature . . . . -55°C to +125°C

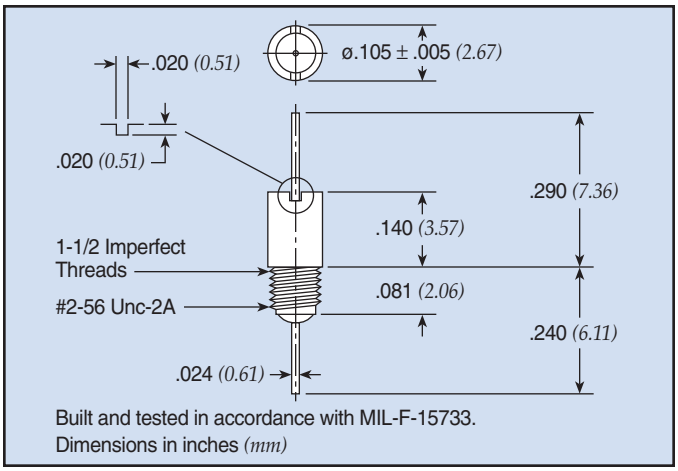
Voltage Rating . . . . . 50 VDC

Current Rating . . . . . 5 A

Effective Filtering From . . . . 1 MHz to 10 GHz

Capacitance . . . . . to 10,000 pF

Dielectric Withstanding Voltage . . . . . 125 VDC



Built and tested in accordance with MIL-F-15733.
Dimensions in inches *(mm)*

Mechanical Specifications

Center Spacing . . . . . .0.110"

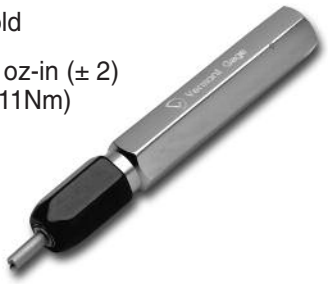
Lead Finish . . . . . Gold

Bushing Finish . . . . . Gold

Tightening Torque . . . . . 14 oz-in (± 2) (0.11Nm)

Insertion Tool

Part Number: 54-874-020

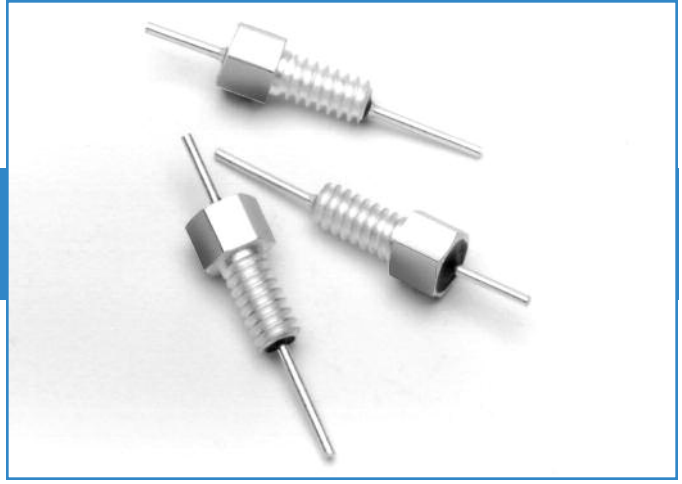


Part Number*	Cap (pF)	Max. Tolerance	Circuit	Current	Voltage	DWV	I.R.	Temperature Range
54-874-010	10	+0%/-20%	C	5 A	50 VDC	125 VDC	1,000 MΩ	-55°C to +125°C
54-874-011	39	+50%/-20%						
54-874-012	100							
54-874-013	390							
54-874-014	1,000							
54-874-015	2,000							
54-874-016	3,300	+100%/-0%						
54-874-017	4,700							
54-874-018	10,000	+80%/-20%						

Note: Parts are RoHS Compliant

api technologies corp.
Spectrum Control

Resin Sealed Bolt-in Filters



These filters are easily mounted in a tapped hole or through-hole with supplied nut and lock-washer. The rugged case with resin seals at both ends provides excellent environmental protection. Primarily used in filtering signal/data lines and DC power lines.

Features

- Wide range of sizes: 4-40 thread through 5/16-24 thread
- Voltage ratings to 500 VDC/220 VAC (400 Hz)
- MIL-F-15733 QPL filters available
- Multiple circuit configurations: C, L and Pi
- Metric threaded filters available, consult factory

4-40 C Circuit

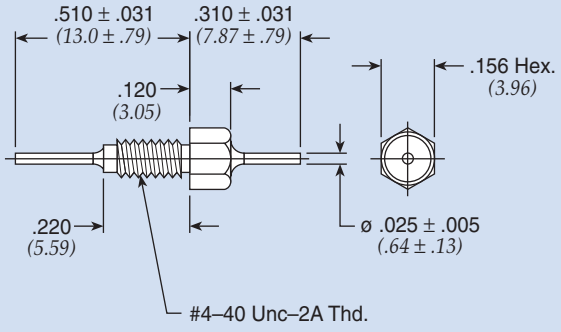


Figure 1

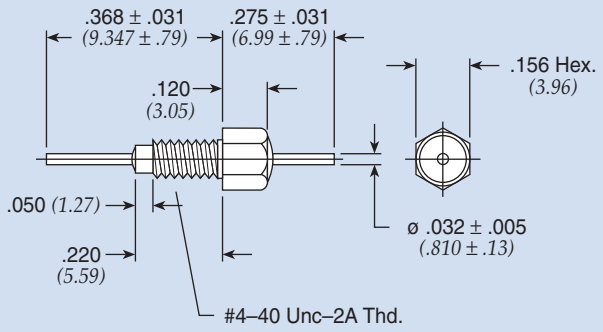


Figure 2

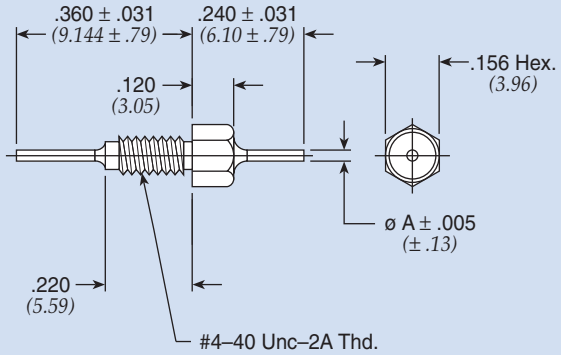


Figure 3

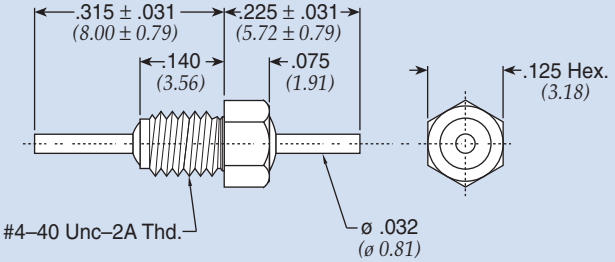


Figure 4

Dimensions in inches *(mm)*

Resin Sealed Bolt-in Filters

4-40 C Circuit

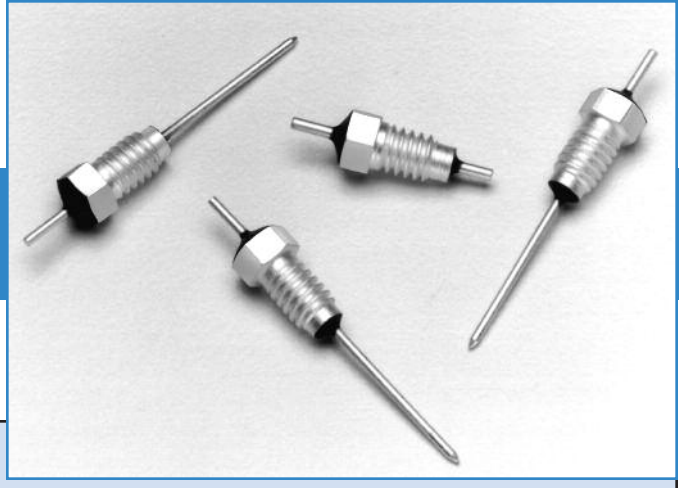
Part Number	See Pg. LP12 for Fig.	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	Min Cap	A In	A (mm)	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
†SCI-9110-100	3	50	—	10	10 pF	0.032	*(0.81)*	—	—	—	—	—	—	10	10
†9900-381-6004	2	50	—	10	5000 pF	—	—	—	—	15	22	30	35	45	55
9900-381-6026	2	50	—	10	0.031 µF	—	—	12	20	25	35	40	45	55	60
†9900-381-6006	2	50	—	10	0.045 µF	—	—	14	22	30	40	45	50	55	60
†54-790-023	1	100	—	10	0.050 µF	—	—	15	24	34	41	45	50	60	60
†54790001X5F101M	1	100	—	10	100 pF ± 20%	—	—	—	—	—	—	—	10	20	25
54-790-019	1	100	—	10	2700 pF	—	—	—	—	9	18	27	33	35	35
9900-381-6013	2	100	—	10	2700 pF	—	—	—	—	10	18	25	33	40	50
54-790-020	1	100	—	10	5600 pF	—	—	—	—	15	24	33	37	40	40
SCI-9112-273	3	100	—	3	0.027 µF	0.016	*(0.41)**	10	20	30	37	45	45	55	60
SCI-9110-273	3	100	—	10	0.027 µF	0.020	*(0.51)*	10	20	30	37	45	45	55	60
54-790-022	1	100	—	10	0.027 µF	—	—	10	20	30	37	45	50	55	60
†SCI-9112-503	3	100	—	3	0.05 µF	0.016	*(0.41)**	15	24	35	41	45	50	60	60
SCI-9110-503	3	100	—	10	0.05 µF	0.020	*(0.51)*	15	24	35	41	45	50	60	60
54-862-001	4	200	—	10	10 pF	—	—	—	—	—	—	—	—	10	10
54-862-002	4	200	—	10	100 pF	—	—	—	—	—	—	3	10	20	28
54-862-003	4	200	—	10	1000 pF	—	—	—	—	—	—	15	25	35	40
†9900-381-6020	2	200	—	10	100 pF	—	—	—	—	—	—	3	10	20	28
SCI-9122-101	3	200	115	3	100 pF	0.016	*(0.41)**	—	—	—	—	—	10	20	20
SCI-9120-101	3	200	115	10	100 pF	0.020	*(0.51)*	—	—	—	—	—	10	20	20
9900-381-6021	2	200	—	10	500 pF	—	—	—	—	—	—	15	20	35	40
SCI-9122-102	3	200	115	3	1000 pF	0.016	*(0.41)**	—	—	—	11	20	28	28	40
SCI-9120-102	3	200	115	10	1000 pF	0.020	*(0.51)*	—	—	—	11	20	28	28	40
†9900-381-6022	2	200	—	10	1200 pF	—	—	—	—	5	9	20	28	35	45
SCI-9122-502	3	200	115	3	5000 pF	0.016	*(0.41)**	—	—	15	24	33	37	40	50
SCI-9120-502	3	200	115	10	5000 pF	0.020	*(0.51)*	—	—	15	24	33	37	40	50
SCI-9122-103	3	200	115	3	0.01 µF	0.016	*(0.41)**	—	12	20	29	38	45	50	55
SCI-9120-103	3	200	115	10	0.01 µF	0.020	*(0.51)*	—	12	20	29	38	45	50	55
9900-381-6005	2	200	—	10	0.015 µF	—	—	7	9	20	29	35	45	50	60
†54-790-018	1	300	—	10	1000 pF	—	—	—	—	—	9	20	28	28	40
†54-790-021	1	300	—	10	0.01 µF	—	—	—	9	20	29	38	45	50	50

* Tinned, steel leads.

† Also available through API's authorized distributors.

api technologies corp.
Spectrum Control

Resin Sealed Bolt-in Filters



4-40 L and Pi Circuit

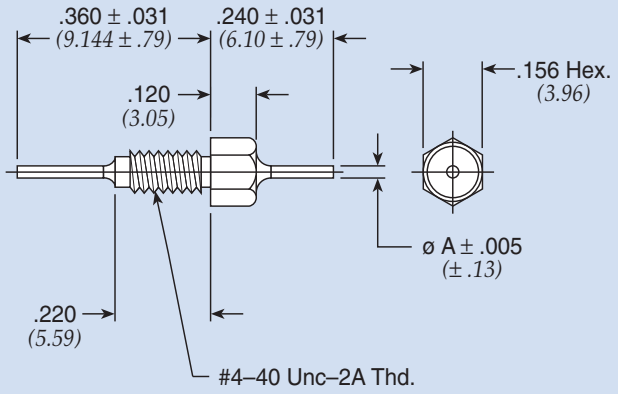


Figure 1

Dimensions in inches *(mm)*

Part Number	Figure	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	CKT	Min Cap	A In	A (mm)	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
†51-729-305	1	50	—	3	Pi	5500 pF	0.018	(0.46)	—	7	14	40	60	70	70	70
†51-729-312	1	50	—	3	Pi	7000 pF	0.018	(0.46)	—	8	15	40	65	70	70	70
SCI-3102-002	1	50	—	3	LB	0.075 µF	0.016	(0.41)*	18	25	37	42	52	55	70	70
SCI-3102-000	1	50	—	5	LB	0.075 µF	0.016	(0.41)	18	25	37	42	52	55	70	70
SCI-3102-007	1	50	—	10	LB	0.075 µF	0.025	(0.64)	18	25	37	42	52	55	70	70
†51-729-304	1	100	—	3	LB	0.022 µF	0.018	(0.46)	7	17	27	34	43	47	55	55
†SCI-3112-002	1	100	—	5	LB	0.027 µF	0.016	(0.41)*	10	20	30	38	45	45	65	70
†SCI-3112-000	1	100	—	5	LB	0.027 µF	0.016	(0.41)	10	20	30	38	45	45	65	70
SCI-3112-007	1	100	—	10	LB	0.027 µF	0.025	(0.64)	10	20	30	38	45	45	65	70
SCI-3112-102	1	100	—	3	LB	0.05 µF	0.016	(0.41)*	15	24	35	42	54	56	70	70
SCI-3112-100	1	100	—	5	LB	0.05 µF	0.016	(0.41)	15	24	35	42	54	56	70	70
SCI-3112-107	1	100	—	10	LB	0.05 µF	0.025	(0.64)	15	24	35	42	54	56	70	70
†51-729-303	1	200	—	3	Pi	1500 pF	0.018	(0.46)	—	—	5	15	42	65	70	70
SCI-3122-002	1	200	115	3	LB	0.01 µF	0.016	(0.41)*	—	12	21	30	41	45	70	70
SCI-3122-000	1	200	115	5	LB	0.01 µF	0.016	(0.41)	—	12	21	30	41	45	70	70
SCI-3122-007	1	200	115	10	LB	0.01 µF	0.025	(0.64)	—	12	21	30	41	45	70	70

* Tinned, steel leads.

† Also available through API's authorized distributors.

Resin Sealed Bolt-in Filters

6-32 C, L, Pi/6-40 Pi

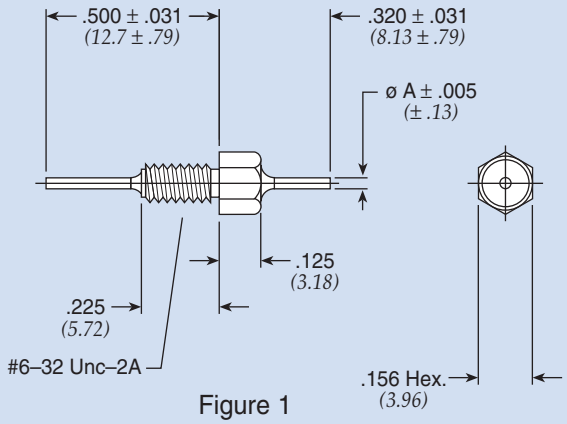


Figure 1

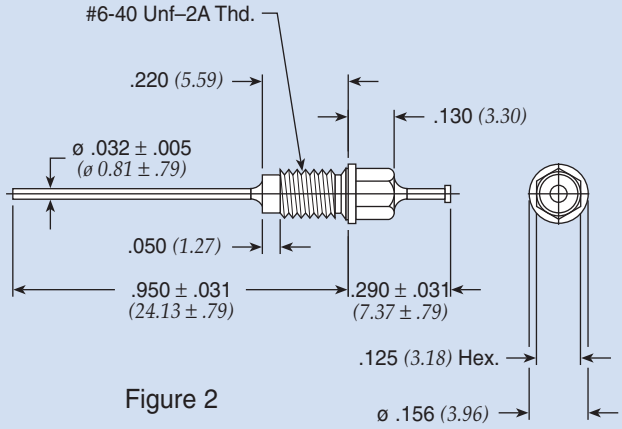


Figure 2

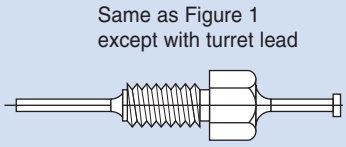


Figure 3

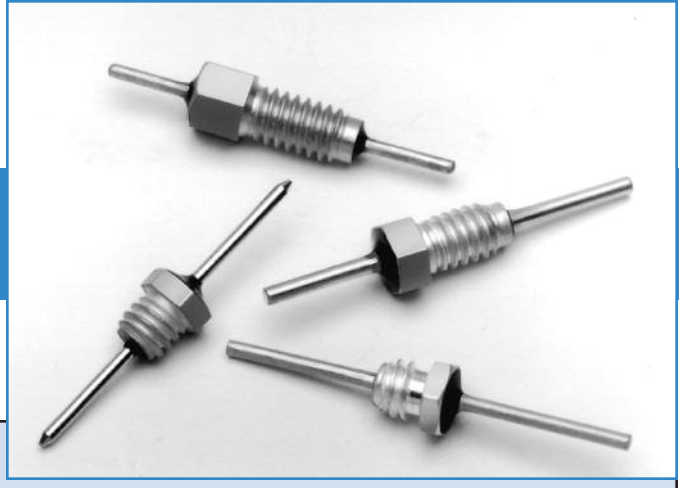
Dimensions in inches *(mm)*

Part Number	Figure	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	CKT	Min Cap	A In	A (mm)	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
†51-726-008	1	50	—	3	Pi	5500 pF	0.018	(0.46)	—	7	14	30	55	70	70	70
51-726-017	1	50	—	3	Pi	9000 pF	0.018	(0.46)	—	8	18	45	65	70	70	70
54-779-019	1	50	—	10	C	0.10 µF	0.032	(0.81)	22	31	40	44	47	55	65	65
†54779001X5F100M	1	100	—	10	C	10 pF ± 20%	0.032	(0.81)	—	—	—	—	—	—	10	10
†54779001X5U102P €	1	100	—	10	C	1000 pF	0.032	(0.81)	—	—	—	10	21	28	28	28
54-779-014	1	100	—	10	C	2700 pF	0.032	(0.81)	—	—	9	18	27	33	35	35
54-779-016	1	100	—	10	C	0.01 µF	0.032	(0.81)	—	9	20	29	38	45	50	50
†51-726-002	3	100	—	10	LB	0.022 µF	0.032	(0.81)	7	17	27	34	43	50	60	60
54-779-017	1	100	—	10	C	0.027 µF	0.032	(0.81)	10	20	30	37	45	50	55	60
54-779-018	1	100	—	10	C	0.050 µF	0.032	(0.81)	15	24	34	41	45	50	60	60
†51-726-001	1	200	—	3	Pi	1500 pF	0.018	(0.46)	—	—	5	15	42	65	70	70
†1289-001	2	200	—	10	Pi	1500 pF	0.032	(0.81)	—	—	5	15	40	60	60	60
†1289-004	2	200	—	10	Pi	3000 pF	0.032	(0.81)	—	—	8	15	50	65	70	70
54-779-015	1	200	—	10	C	5600 pF	0.032	(0.81)	—	—	15	24	33	37	40	40

† Also available through API's authorized distributors.
€ Also available through API's authorized European distributors/agents.

api technologies corp.
Spectrum Control

Resin Sealed Bolt-in Filters



8-32 C Circuit

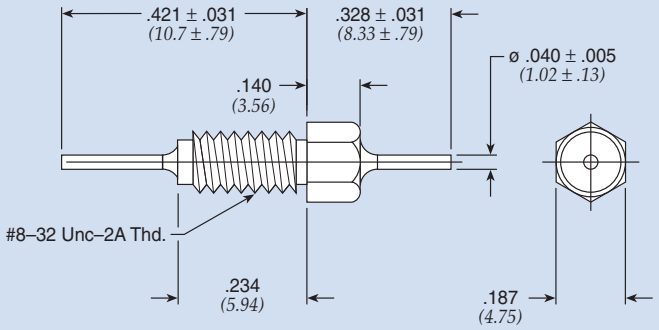


Figure 1

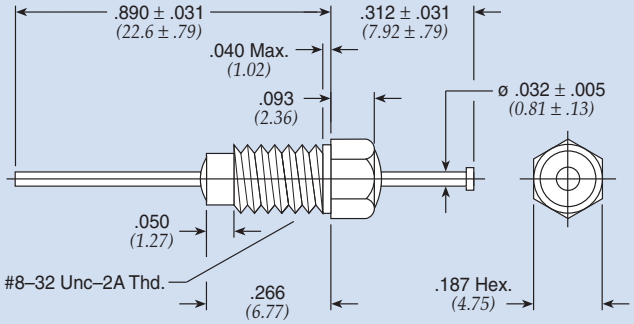


Figure 2

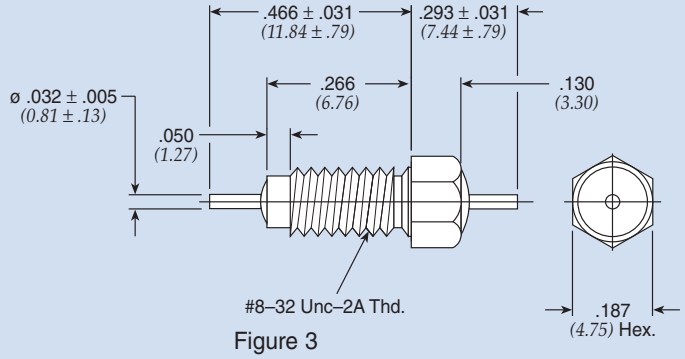


Figure 3

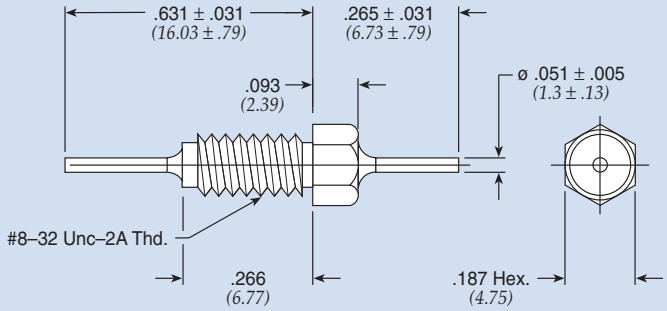


Figure 4

Dimensions in inches *(mm)*

Part Number	Figure	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	Min Cap	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
SCI-9200-503	2	50	—	10	0.05 µF	15	24	35	41	45	50	60	60
9950-381-6009	3	50	—	10	0.12 µF	20	30	43	45	55	55	55	55
54-785-017	1	50	—	10	0.21 µF	28	37	45	50	55	60	70	70
9950-381-6008	3	70	—	10	0.08 µF	15	24	37	41	51	51	55	55
†54713001X5F101M	4	100	—	10	80 pF	—	—	—	—	—	10	20	20
†54713001X5U102P	4	100	—	10	1000 pF	—	—	—	11	20	28	28	28
54-785-013	1	100	—	10	0.01 µF	—	9	20	29	38	45	50	55
SCI-9210-103	2	100	—	10	0.01 µF	—	12	20	29	38	45	50	50
SCI-9210-273	2	100	—	10	0.027 µF	10	20	30	36	45	50	55	60
†54-785-005	1	100	—	10	0.05 µF	15	24	34	41	45	50	60	60
54-785-016	1	100	—	10	0.1 µF	20	29	38	44	47	55	65	65
54-785-011	1	150	—	10	2000 pF	—	—	8	17	26	32	34	35
54-785-012	1	150	—	10	5000 pF	—	6	15	24	33	37	40	40
SCI-9220-101	2	200	115	10	100 pF	—	—	—	—	—	10	20	25
SCI-9220-102	2	200	115	10	1000 pF	—	—	—	11	20	28	28	28
SCI-9220-502	2	200	115	10	5000 pF	—	6	15	24	33	37	40	40

† Also available through API's authorized distributors.

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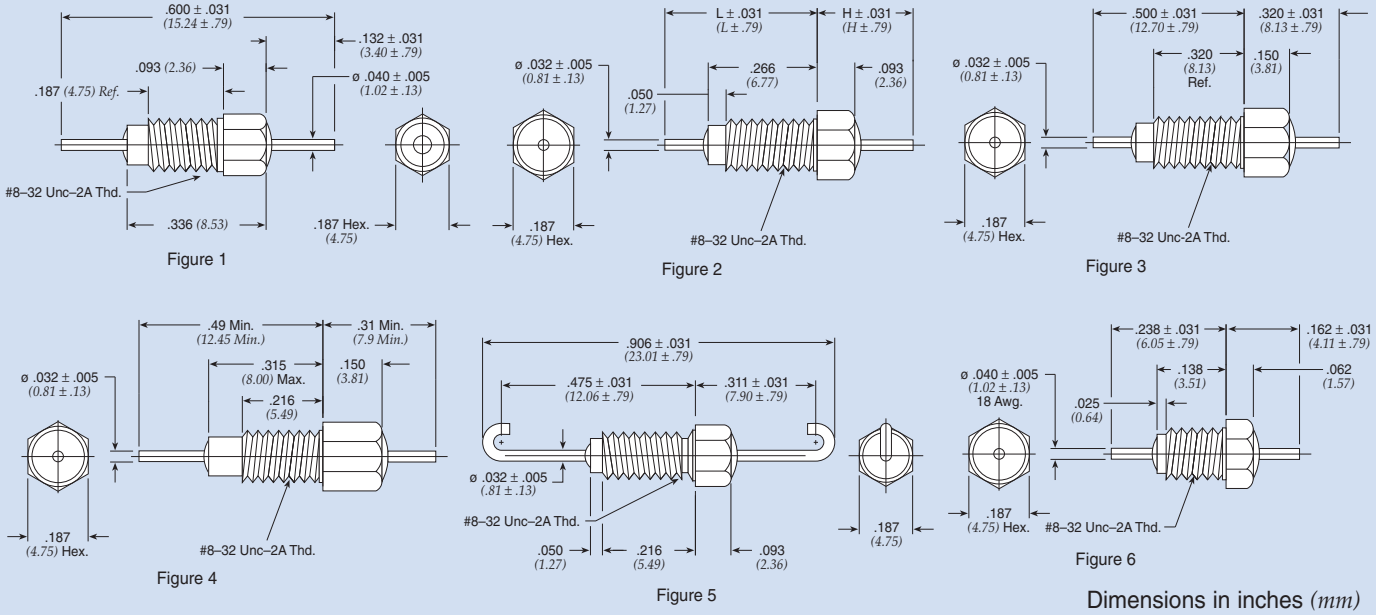
Spectrum Control

Resin Sealed Bolt-in Filters

8-32 L & Pi Circuit



Part Number	M15733 MIL Number	Fig.	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	CKT	Min Cap	H In	H (mm)	L In	L (mm)	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
51-712-069 €	—	2	50	—	10	Pi	0.012 µF	0.265	(6.73)	0.413	(10.49)	5	9	18	45	65	70	70	70
†**51-712-065**	/61-0014	4	50	—	20	Pi	0.012 µF	0.310	(7.87)	0.490	(12.45)	—	10	20	30	65	70	70	70
†**1250-054**	—	2	70	—	10	Pi	5000 pF	0.312	(7.92)	0.500	(12.70)	—	—	20	30	65	65	70	70
†**1293-001**	—	3	70	—	10	Pi	0.028 µF	—	—	—	—	10	14	38	65	75	75	75	75
51-712-055	/43-0002	2	100	70	10	Pi	3000 pF	0.312	(7.92)	0.578	(14.68)	—	—	5	15	45	50	50	50
†**51-712-014**	/28-0001	2	100	70	10	Pi	3000 pF	0.312	(7.92)	0.890	(22.61)	—	—	5	15	45	60	60	60
51-712-028	/28-0002	5	100	70	10	Pi	3000 pF	—	—	—	—	—	—	5	15	45	60	60	60
†**51-712-063***	/61-0008	2	100	70	10	Pi	5500 pF	0.312	(7.92)	0.500	(12.70)	—	—	15	35	65	70	70	70
†**51-712-003** ◊	—	2	100	—	10	LB	0.022 µF	0.280	(7.11)	0.850	(21.59)	7	17	27	34	43	50	60	60
51-712-060 ◊	/28-0004	2	100	70	10	LB	0.022 µF	0.312	(7.92)	0.890	(22.61)	10	17	28	34	41	50	60	60
†**51-712-067**	/61-0013	2	100	—	10	LB	0.031 µF	0.280	(7.11)	0.890	(22.61)	10	20	30	38	42	52	60	60
51-762-006	/44-0003	6	125	85	15	Pi	65 pF	—	—	—	—	—	—	—	—	—	—	16	42
†**1250-059**	—	6	125	—	15	Pi	1500 pF	—	—	—	—	—	—	5	15	35	45	60	60
†**51-762-005**	/44-0002	6	125	85	15	Pi	1500 pF	—	—	—	—	—	—	5	15	25	35	50	50
1250-062	—	1	125	—	15	Pi	3000 pF	—	—	—	—	—	—	5	15	45	45	70	70
†**51-744-003***	/44-0001	1	125	85	15	Pi	3000 pF	—	—	—	—	—	—	10	15	30	40	65	65
†**SCI-3223-000**	—	2	200	115	10	Pi	2000 pF	0.312	(7.92)	0.890	(22.61)	—	—	8	10	48	50	70	70
†**1250-003** €	—	2	200	—	10	Pi	3000 pF	0.312	(7.92)	0.890	(22.61)	—	—	5	15	45	65	70	70
†**51-712-001***	—	2	200	—	10	Pi	3000 pF	0.312	(7.92)	0.890	(22.61)	—	—	5	15	45	65	70	70
1250-049	—	2	200	—	10	Pi	3000 pF	0.312	(7.92)	0.578	(14.68)	—	—	5	15	45	65	65	60
†**51-744-002** ◊	—	2	200	—	10	Pi	5500 pF	0.265	(6.73)	0.413	(10.49)	—	7	14	30	55	70	70	70
†**1293-000**	—	3	200	—	10	Pi	0.012 µF	—	—	—	—	5	10	28	40	65	70	70	70

† Also available through API's authorized distributors.
€ Also available through API's authorized European distributors/agents.
* Denotes parts with turret lead.
◊ Supplied with .040" (1.02mm) diameter lead.

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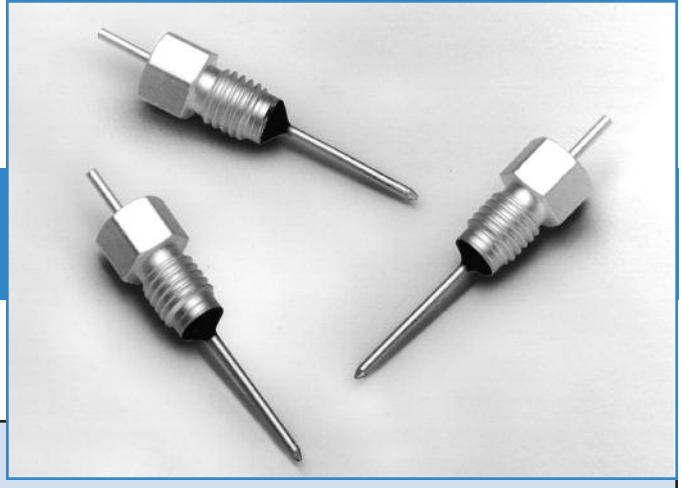
Spectrum Control

Resin Sealed Bolt-in Filters



10-32 C & Pi Circuit

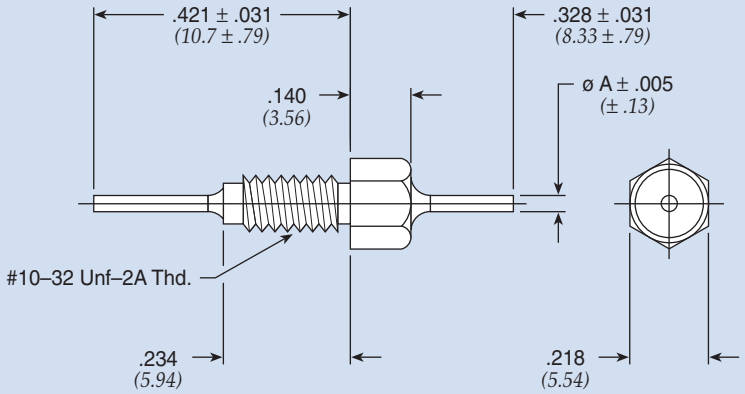


Figure 1

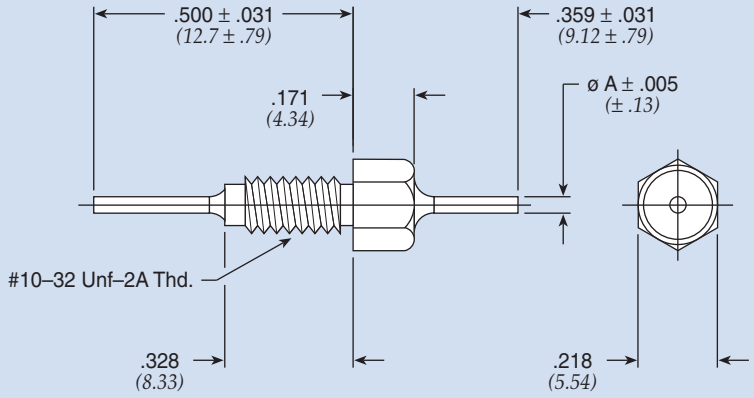


Figure 2

Dimensions in inches *(mm)*

Part Number	Figure	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	CKT	Min Cap	A In	A (mm)	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
51-761-002	1	50	—	10	Pi	0.018 µF	0.032	*(0.81)*	7	14	30	55	70	70	70	70
†**54-786-013**	1	50	—	10	C	0.3 µF	0.040	*(1.02)*	30	38	47	50	55	60	70	70
54-786-028	1	50	—	10	C	0.56 µF	0.040	*(1.02)*	35	43	50	52	60	65	70	70
†**54-786-014**	2	50	—	10	C	0.8 µF	0.040	*(1.02)*	40	46	52	54	70	70	70	70
51-761-001	1	100	—	10	Pi	0.01 µF	0.032	*(0.81)*	—	10	20	45	65	70	70	70
54-786-027	1	200	—	10	C	0.1 µF	0.040	*(1.02)*	20	29	38	44	47	55	65	65

† Also available through API's authorized distributors.

Resin Sealed Bolt-in Filters

12-28 C /12-32 C Circuit

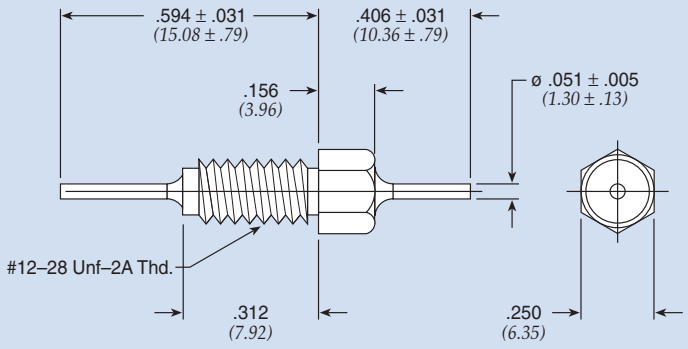


Figure 1

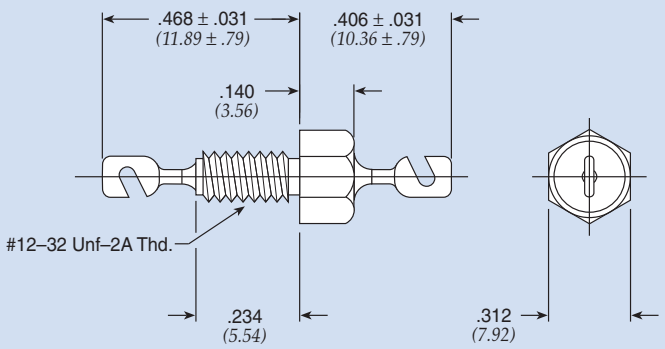


Figure 2

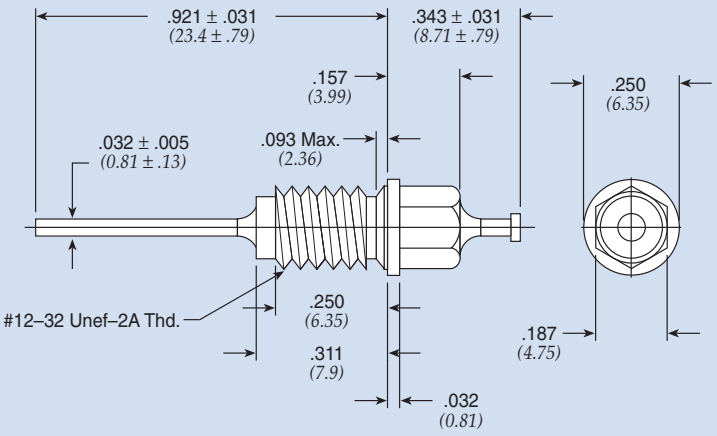


Figure 3

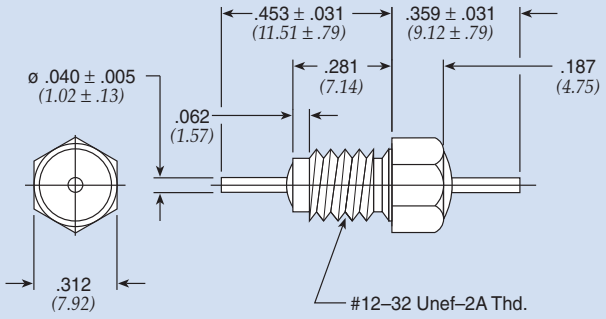


Figure 4

Dimensions in inches *(mm)*

Part Number	Figure	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	CKT	Min Cap	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
9910-381-6004	4	35	—	15	C	1 µF	38	40	52	52	70	70	78	80
9910-381-6003	4	50	—	15	C	0.75 µF	35	37	51	51	61	61	65	70
SCI-9310-273	3	100	—	10	C	0.027 µF	10	20	30	37	45	50	55	60
9910-381-6002	4	100	—	15	C	0.30 µF	28	30	45	50	55	55	60	65
54804002X5R101M	2	250	—	10	C	100 pF ± 20%	—	—	—	—	—	10	20	25
† **54804002X5R471M**	2	250	—	10	C	470 pF ± 20%	—	—	—	—	12	22	25	28
† **54804002X5V102P**	2	250	—	10	C	1000 pF	—	—	—	10	21	28	28	28
54743001X5U102Z	1	250	—	15	C	1000 pF	—	—	—	—	20	28	28	28

† Also available through API's authorized distributors.

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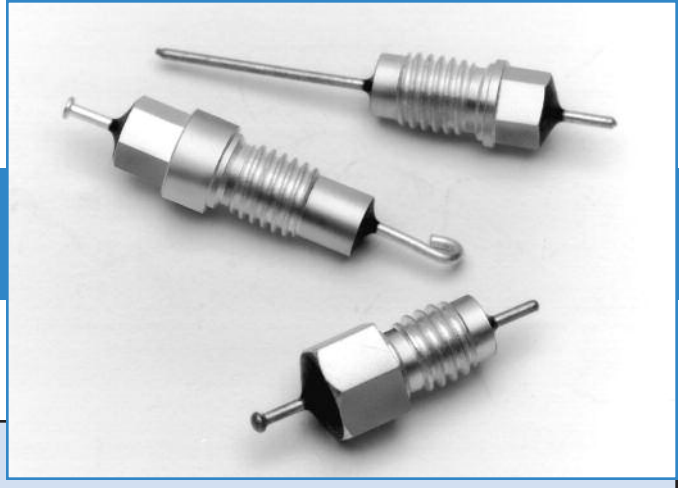
Spectrum Control

Resin Sealed Bolt-in Filters



12-28 & 12-32 Pi Circuit

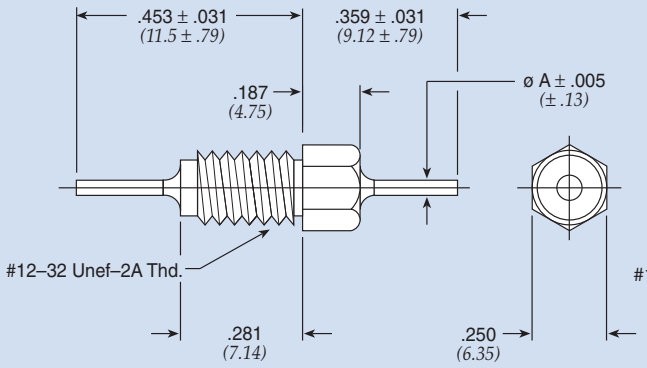


Figure 1

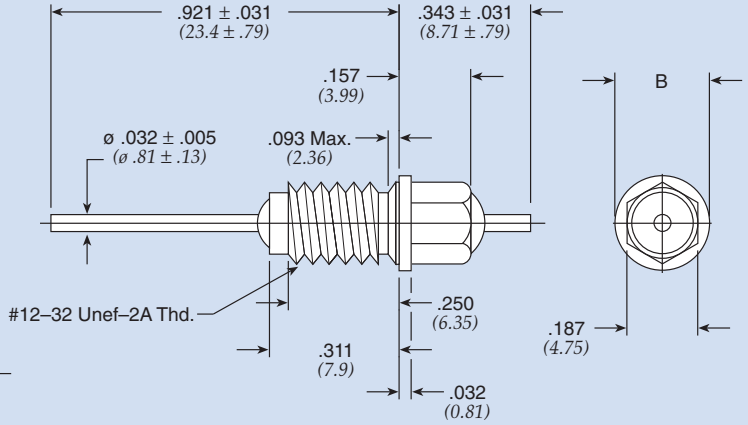


Figure 2

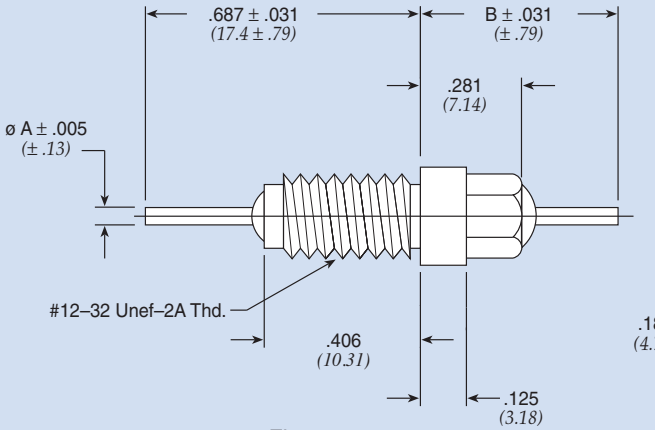
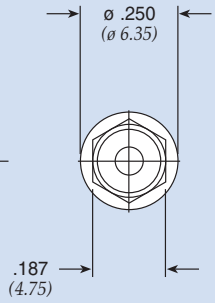


Figure 3



Same as Figure 3
Except as Shown.

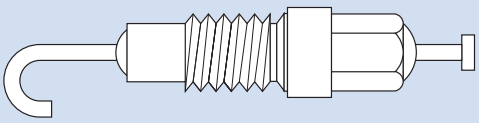


Figure 4

Same as Figure 1
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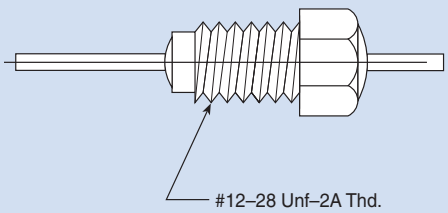

Figure 5

Same as Figure 2
Except as Shown.

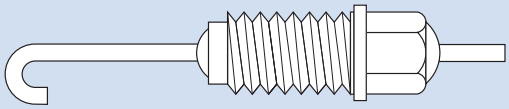

Figure 6

Turret Lead

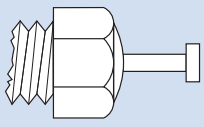

Figure 7

Dimensions in inches *(mm)*

Resin Sealed Bolt-in Filters

12-28 & 12-32 Pi Circuit

Part Number	M15733 MIL Number	See Pg. LP20 for Fig.	Rated Voltage 125°C		I	Min	A		B		Minimum Insertion Loss (dB)							
			DC	AC	Amp	Cap	In	(mm)	In	(mm)	1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
51-709-013	—	3	50	—	10	0.1 µF	0.040	(1.02)	0.437	(11.10)	10	40	52	70	70	70	70	70
SCI-3303-000*	—	2	50	—	10	0.15 µF	0.032	(0.81)	0.250	(6.35)	12	43	68	70	70	70	70	70
51-709-015	/61-0009	3	70	—	10	0.012 µF	0.032	(0.81)	0.470	(11.94)	—	—	—	—	65	65	65	65
†1216-001	—	3	70	—	10	0.050 µF	0.032	(0.81)	0.468	(11.89)	15	20	60	65	75	75	75	75
†1270-016*	—	2	100	—	10	5500 pF	0.032	(0.81)	0.250	(6.35)	—	7	20	35	65	70	70	70
†1270-025	—	2	100	—	10	5500 pF	0.032	(0.81)	0.235	(5.97)	—	7	20	35	65	70	70	70
†1201-066	—	1	100	—	10	5500 pF	0.032	(0.81)	—	—	—	7	20	40	68	70	70	70
51-714-055*	/61-0011	2	100	—	10	5500 pF	0.032	(0.81)	0.235	(5.97)	—	7	20	—	65	70	70	70
51-714-054*	/61-0010	2	100	—	10	5500 pF	0.032	(0.81)	0.250	(6.35)	—	7	20	—	65	70	70	70
51-714-053*	/61-0007	2	100	70	10	5500 pF	0.032	(0.81)	0.250	(6.35)	—	7	—	—	65	70	70	70
51-714-058*	—	2	100	—	10	0.025 µF	0.032	(0.81)	0.250	(6.35)	10	15	40	60	70	70	70	70
51-714-056	/61-0012	6	100	—	10	0.025 µF	0.032	(0.81)	0.235	(5.97)	—	—	—	—	65	65	65	65
†SCI-3313-000*	—	2	100	—	10	0.10 µF	0.032	(0.81)	0.250	(6.35)	10	40	65	70	70	70	70	70
51-719-022	—	1	200	—	10	1300 pF	0.040	(1.02)	—	—	—	—	5	10	35	60	70	70
†1201-052	—	5	200	—	10	3000 pF	0.032	(0.81)	—	—	—	—	5	15	45	45	70	70
†1201-054	—	1	200	—	10	3000 pF	0.032	(0.81)	—	—	—	—	5	15	45	45	70	70
51-714-001*	—	2	200	—	10	3000 pF	0.032	(0.81)	0.250	(6.35)	—	—	5	15	43	60	70	70
†1270-024	—	2	200	—	10	3000 pF	0.032	(0.81)	0.235	(5.97)	—	—	5	15	45	45	70	70
51-714-003*	—	2	200	—	10	3000 pF	0.032	(0.81)	0.235	(5.97)	—	—	5	15	43	60	70	70
†1270-009	—	2	200	—	10	3000 pF	0.032	(0.81)	0.250	(6.35)	—	—	5	15	45	45	70	70
51-719-053**	/61-0001	5	200	140	10	3000 pF	0.032	(0.81)	—	—	—	—	—	—	45	—	70	70
51-719-054*	/61-0002	1	200	140	10	1500 pF	0.032	(0.81)	—	—	—	—	—	—	45	45	70	70
51-714-051*	/61-0005	2	200	140	10	1500 pF	0.032	(0.81)	0.250	(6.35)	—	—	—	—	45	45	70	70
51-719-023*	/43-0001	5	200	140	10	3000 pF	0.032	(0.81)	—	—	—	—	—	—	—	45	45	45
51-714-052*	/61-0006	2	200	140	10	3000 pF	0.032	(0.81)	0.235	(5.97)	—	—	—	—	45	45	70	70
51-714-004*	—	2	200	—	10	5500 pF	0.032	(0.81)	0.235	(5.97)	—	7	14	35	60	70	70	70
†51-719-021	—	1	200	—	10	5500 pF	0.040	(1.02)	—	—	—	7	14	30	50	65	65	65
€51-714-002*	—	2	200	—	10	5500 pF	0.032	(0.81)	0.250	(6.35)	—	7	14	35	60	70	70	70
†SCI-3323-000*	—	2	200	115	10	0.012 µF	0.032	(0.81)	0.250	(6.35)	—	—	27	30	70	70	70	70
†1221-001	—	4	300	—	10	5500 pF	0.032	(0.81)	0.437	(11.10)	—	—	15	30	65	70	70	70
†51-709-004	/46-0001	4	300	—	10	5500 pF	0.032	(0.81)	0.437	(11.10)	—	—	—	—	65	70	70	70
1201-086	—	1	350	—	10	2500 pF	0.040	(1.02)	—	—	—	—	5	10	50	50	65	65
†51-719-011 €	—	1	500	—	10	3000 pF	0.040	(1.02)	—	—	—	—	12	20	45	60	60	60

† Also available through API's authorized distributors.
€ Also available through API's authorized European distributors/agents.
* Denotes parts supplied with lead as shown in Figure 7.
** Bushing housing will have 1 1/2 imperfect threads at hex to thread interface.

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Spectrum Control

Resin Sealed Bolt-in Filters

5/16-24 & 5/16-32 C & Pi Circuit

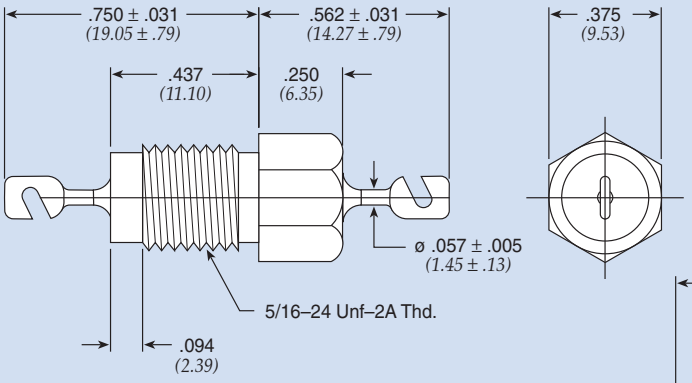


Figure 1

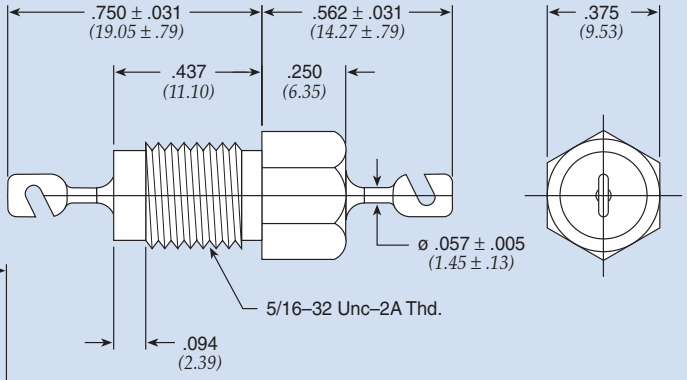


Figure 2

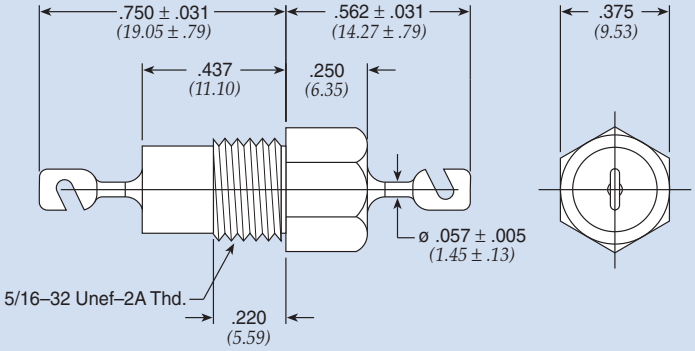


Figure 3

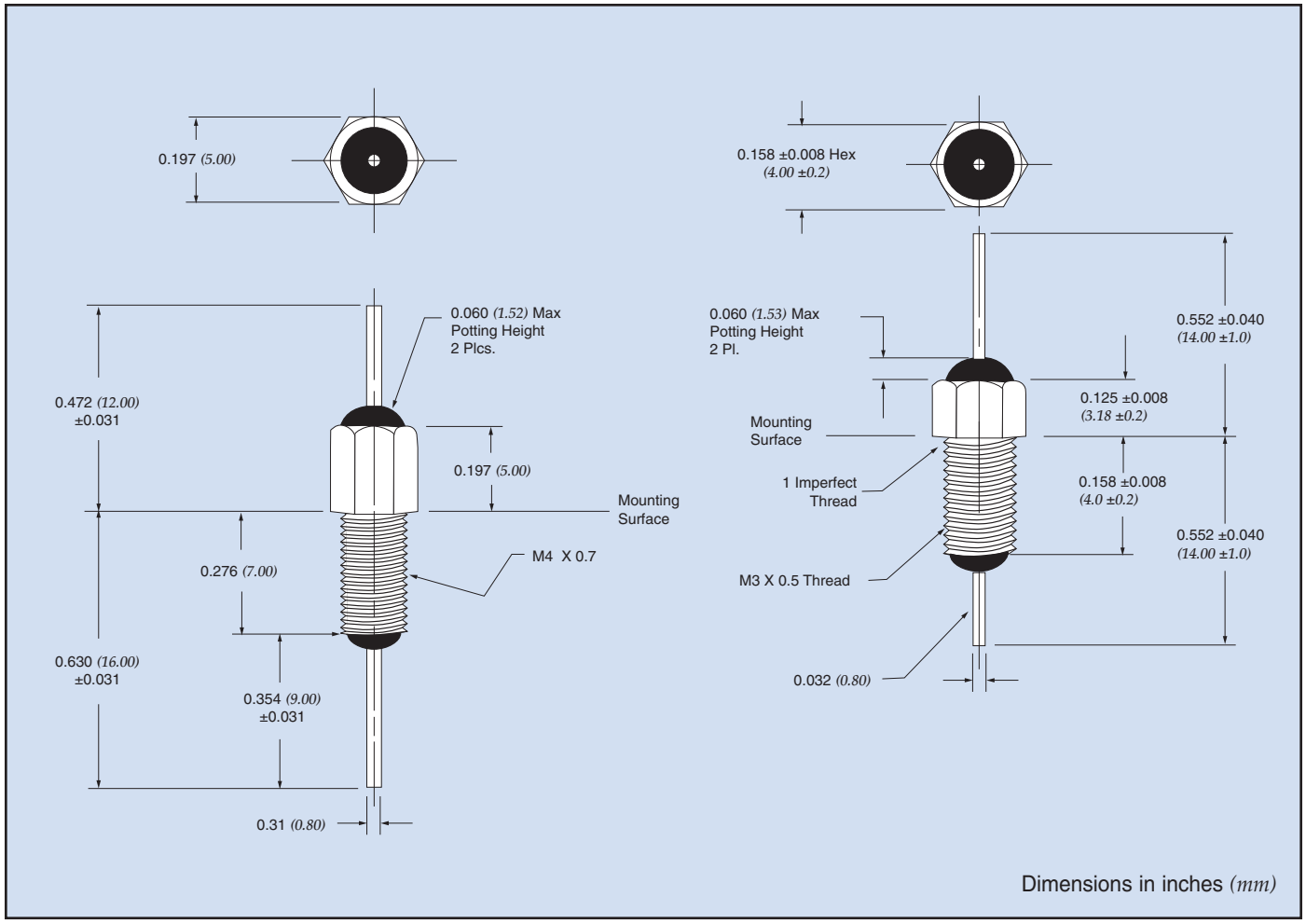
Dimensions in inches *(mm)*

Part Number	M15733 MIL Number	Fig.	Rated Voltage 125°C DC	Rated Voltage 125°C AC	I Amp	CKT	Min Cap	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 GHz
SCI-9510-503	—	1	100	—	25	C	0.05 µF	15	24	35	41	45	60	60	60
SCI-3513-000	—	1	100	—	25	Pi	0.1 µF	10	18	28	37	70	70	70	70
SCI-3523-000	—	1	200	115	25	Pi	0.02 µF	—	—	25	50	66	66	70	70
SCI-3543-000	—	1	400	220	25	Pi	6000 pF	—	—	15	35	54	65	70	70
SCI-9550-102	—	1	500	115	25	C	1000 pF	—	—	—	11	20	28	28	28
†1202-052	—	1	500	—	25	Pi	3000 pF	—	—	10	35	55	55	70	70
†1202-054	—	2	500	—	25	Pi	3000 pF	—	—	10	35	55	55	70	70
51-702-020*	/61-0003	3	500	350	25	Pi	3000 pF	—	—	—	35	55	55	70	70
51-702-021	/61-0004	3	500	350	25	Pi	3000 pF	—	—	10	35	55	55	70	70
SCI-9550-332	—	1	500	115	25	C	3300 pF	—	—	12	20	30	33	40	40
SCI-3553-000	—	1	500	220	25	Pi	0.012 µF	—	—	18	28	52	52	70	70
†1202-005	—	2	700	—	25	Pi	2000 pF	—	—	5	20	50	55	70	70

† Also available through API's authorized distributors.
* Denotes parts with 5/16-24 Threads

Metric Resin Sealed Bolt-in Filters

M3 Pi Circuit & M4 C Circuit



Dimensions in inches *(mm)*

Part Number	Figure	Rated Voltage 125°C DC	I Amp	CKT	Min Cap	Temperature Range
51-831-004	1	100	3	Pi	1000 pF	-55°C to +125°C
51-831-011	1	100	10	Pi	100 pF	-55°C to +125°C
51-831-012	1	100	10	Pi	1500 pF	-55°C to +125°C
51-831-013	1	100	10	Pi	3000 pF	-55°C to +125°C
51-831-014	1	70	10	Pi	5500 pF	-55°C to +125°C
51-831-015	1	100	10	Pi	12000 pF	-55°C to +125°C
54-863-004	2	100	10	C	10000 pF	-55°C to +125°C
54-863-005	2	100	10	C	100 pF	-55°C to +125°C
54-863-007	2	100	10	C	1000 pF	-55°C to +125°C
54-863-008	2	100	10	C	2000 pF	-55°C to +125°C
54-863-010	2	100	10	C	4700 pF	-55°C to +125°C

RoHS available.

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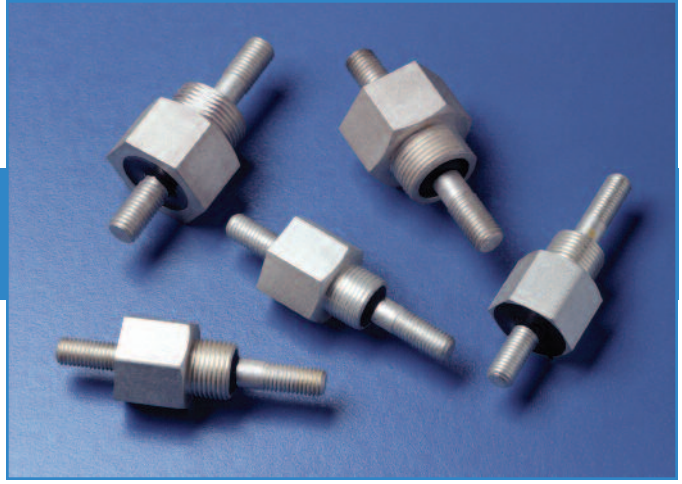
High Current/High Voltage Resin Sealed Filters



High current filters are ideal for use in high current 5 volt logic buss, but also can be used for ±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 CF6)

1. Mounting installation torque
   Method A: Mounting in full threaded through-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

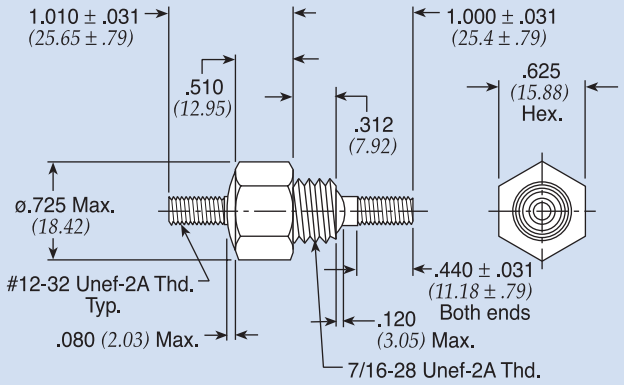


Figure 1

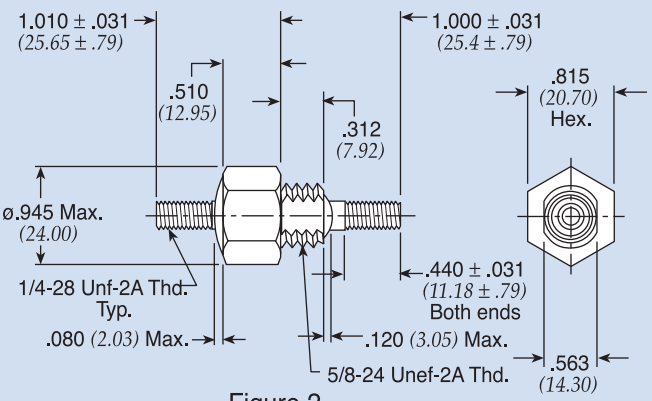


Figure 2

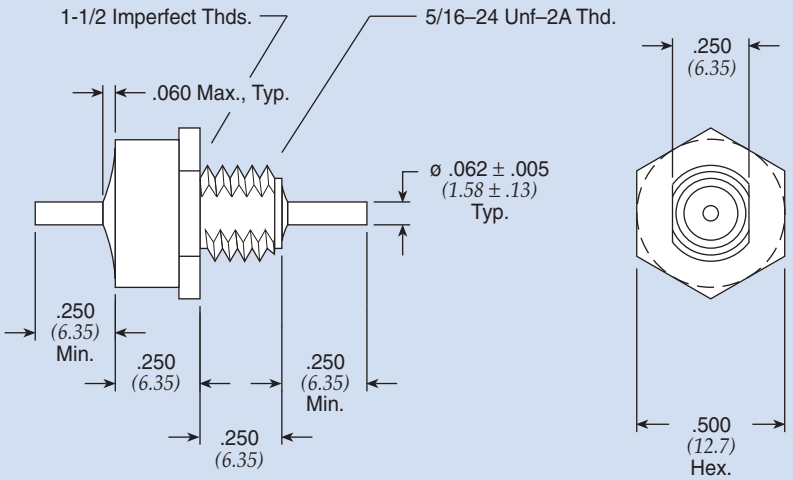


Figure 3

Dimensions in inches *(mm)*

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High Current/High Voltage Resin Sealed Filters

High Current High Voltage Feed-through

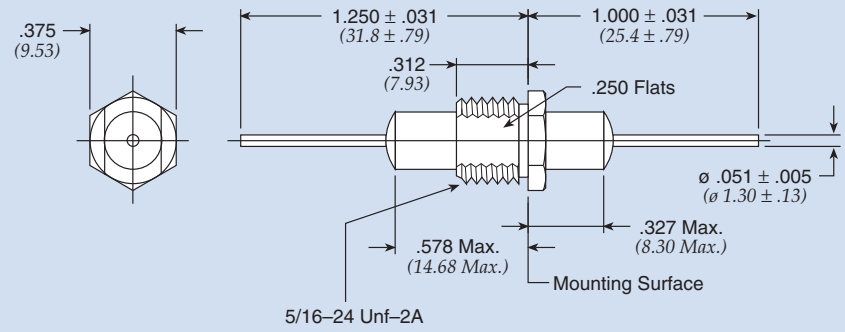

Figure 4

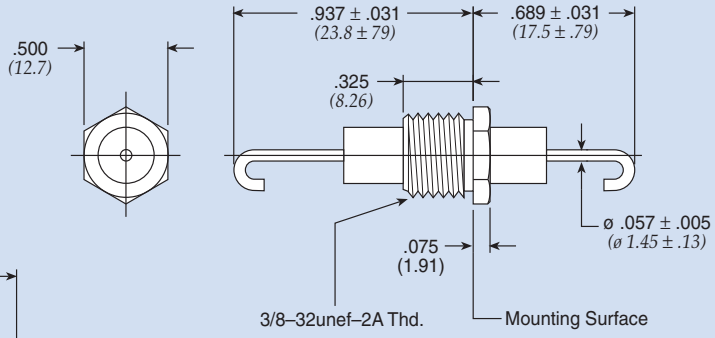

Figure 5

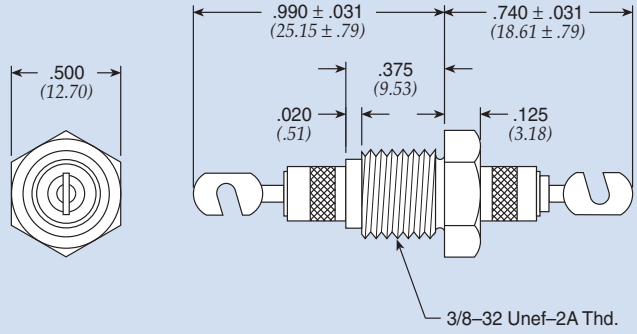

Figure 6

Dimensions in inches *(mm)*

Part Number	Figure	Rated Voltage 125°C DC	Rated Voltage 125°C AC***	I Amp	CKT	Min Cap	Minimum Insertion Loss (dB) 1 MHz	3 MHz	10 MHz	30 MHz	100 MHz	300 MHz	1 GHz	10 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 API's authorized distributors.
€ Also available through API'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