

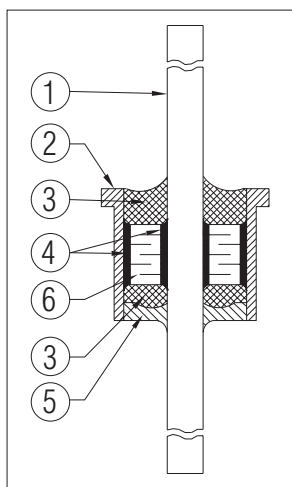
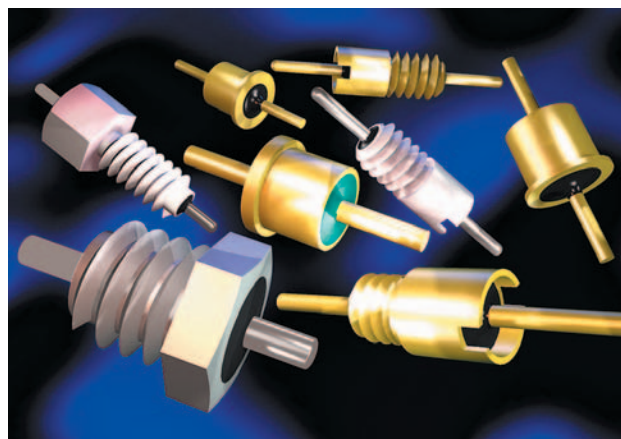
# Advanced Technology Filters



## Miniature, Subminiature & Microminiature

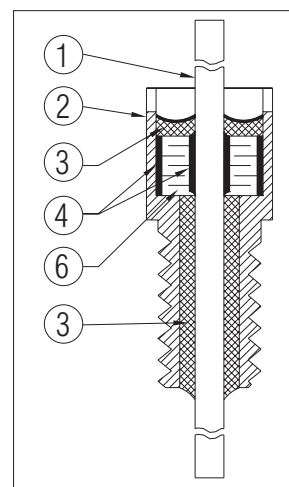
### APPLICATIONS

AVX's Miniature filter line breaks the "small" size barrier. These ultraminiature products, available as solder-in or screw-in style, have case diameters as low as .073". Threaded filters will allow substitution, flexibility of placement and simple installation, while solder-in parts will provide hermeticity of your microcircuit packages. Now, with capacitance values of up to 50,000 pF, "C", "L" or "T" circuits, superior insertion loss over on-board filtering, variety of ultra small and lightweight sizes, you can meet all "mission critical" objectives. World's smallest and most complete miniature EMI filter line is especially well suited for microwave industry, medical electronics, avionics instrumentation, satellites or other applications where space is at premium.

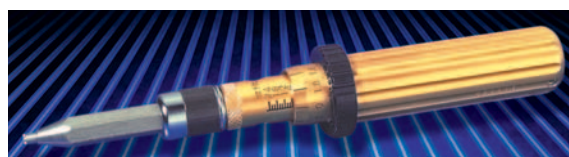


### FEATURES

- World's smallest filters, a "must" for avionics and space industry.
- Tiny size for miniaturization of microwave and telecom equipment.
- Hardware real-estate and weight reduction of up to 60%.
- Most complete product offering with solder-in or bolt installation.
- Discoidal capacitor design to meet cost/reliability goals.



① - LEAD	② - CASE	③ - EPOXY
④ - SOLDER	⑤ - GLASS SEAL	⑥ - CAPACITOR



NOTE: Torque limiting tool with custom adapter available upon request.

### SPECIFICATIONS

#### Mechanical

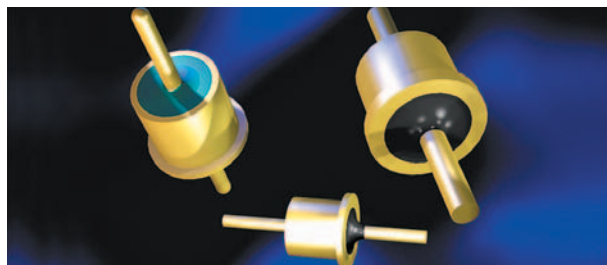
Material: Solder-In: Case and Leads:  
Kovar per ASTM F-15  
Screw-in: Case: CRS per ASTM-108  
Leads: Copper clad steel  
(1-64 & 2-56 Thd.)  
Copper (4-40 & 8-36 Thd.)

Finish: Solder-in: Gold per Mil-G-45204  
Screw-in: Gold per Mil-G-45204 (standard)  
Silver optional (1-64 & 2-56 Thd.)  
Silver per QQ-S-365 (standard)  
Gold optional (4-40 & 8-36 Thd.)

#### Electrical

Capacitance: measured @ 1KHz and .1 to 1 VRMS, 25°C  
Dissipation factor: 3% max.  
Insulation resistance: 10,000 Mohms min. @ 25°C, WVDC;  
1000 Mohms min. @ 125°C, WVDC  
DC resistance: .02 ohm max.  
Dielectric withstanding voltage: 200% of WVDC min.

### SOLDER-IN STYLE, C TYPE



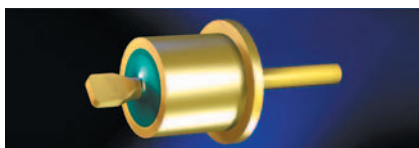
#### SPECIFICATIONS

AVX Part Number	Voltage Vdc (V)	Min. Cap (pF)	Current Idc (A)	MINIMUM NO LOAD INSERTION LOSS (db) @ 25°C PER MIL-STD-220					
				10 MHZ	30 MHZ	100 MHZ	300 MHZ	1 GHZ	10 GHZ
ZXS1C3-502	50	5000	1.5	15	22	35	45	55	60
ZXS1C3-272	50	2700	1.5	10	17	30	38	50	60
ZXS1A3-152	100	1500	1.5	5	12	25	33	45	55
ZXS1A3-102	100	1000	1.5	4	10	22	30	42	55
ZXS1A3-501	100	500	1.5	-	-	15	25	35	50
ZXS1A3-251	100	250	1.5	-	-	10	17	27	40
ZXS1B3-101	200	100	1.5	-	-	3	10	20	30
ZXS1B3-500	200	50	1.5	-	-	1	6	15	25
ZXS1B3-250	200	25	1.5	-	-	-	1	10	22
ZXS1B3-100	200	10	1.5	-	-	-	-	3	20
ZXS1B3-5R0	200	5	1.5	-	-	-	-	-	15
ZXS1B3-000	200	2 max.	1.5	-	-	-	-	-	-
ZYS1C3-273	50	27000	2.5	30	37	43	53	65	70
ZYS1C3-103	50	10000	2.5	20	27	37	47	60	65
ZYS1A3-502	100	5000	2.5	15	22	35	45	55	60
ZYS1A3-272	100	2700	2.5	10	17	30	38	50	60
ZYS1A3-152	100	1500	2.5	5	12	25	33	45	55
ZYS1B3-102	200	1000	2.5	4	10	22	30	42	55
ZYS1B3-501	200	500	2.5	-	-	15	25	35	50
ZYS1B3-251	200	250	2.5	-	-	10	17	27	40
ZYS1B3-101	200	100	2.5	-	-	3	10	20	30
ZYS1B3-500	200	50	2.5	-	-	1	6	15	25
ZYS1B3-250	200	25	2.5	-	-	-	1	10	22
ZYS1B3-100	200	10	2.5	-	-	-	-	3	20
ZYS1B3-5R0	200	5	2.5	-	-	-	-	-	15
ZYS1B3-000	200	2 max.	2.5	-	-	-	-	-	-
ZZS1C3-503	50	50000	5	35	40	45	55	70	70
ZZS1C3-273	50	27000	5	30	37	43	53	65	70
ZZS1A3-103	100	10000	5	20	27	37	47	60	65
ZZS1B3-502	200	5000	5	15	22	35	45	55	60
ZZS1B3-272	200	2700	5	10	17	30	38	50	60
ZZS1B3-152	200	1500	5	5	12	25	33	45	55
ZZS1B3-102	200	1000	5	4	10	22	30	42	55
ZZS1B3-501	200	500	5	-	-	15	25	35	50
ZZS1B3-251	200	250	5	-	-	10	17	27	40
ZZS1B3-101	200	100	5	-	-	3	10	20	30
ZZS1B3-500	200	50	5	-	-	1	6	15	25
ZZS1B3-250	200	25	5	-	-	-	1	10	22
ZZS1B3-100	200	10	5	-	-	-	-	3	20
ZZS1B3-5R0	200	5	5	-	-	-	-	-	15
ZZS1B3-000	200	2 max.	5	-	-	-	-	-	-

NOTE: Dimensions in inches (millimeters).

### CONFIGURATION OPTIONS

#### Terminals



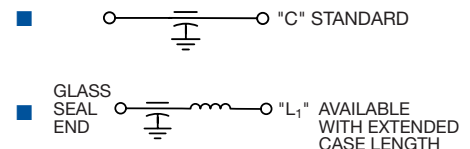
Flattened at Glass Seal End Only

#### Glass Seal

- Opposite Flange End – Standard
- At Flange End – Reversed

Change 3rd letter of part number from "S" to "R" for reversed configuration

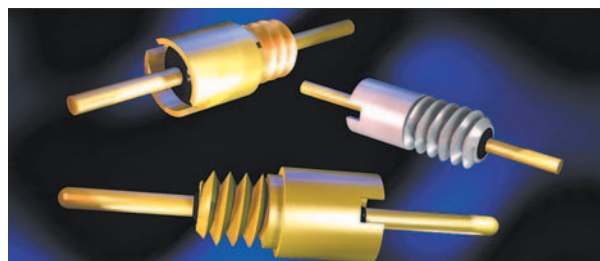
#### Schematic



# EMI Filters



## Miniature, Subminiature & Microminiature



### SCREW-IN STYLE, C TYPE <sup>1-64</sup>/<sub>2-56</sub> THD.

#### SPECIFICATIONS

AVX Part Number	Voltage Vdc (V)	Min. Cap (pF)	Current Idc (A)	MINIMUM NO LOAD INSERTION LOSS (db) @ 25°C PER MIL-STD-220					
				10 MHZ	30 MHZ	100 MHZ	300 MHZ	1 GHZ	10 GHZ
SXD1C3-502	50	5000	3	15	22	35	45	55	60
SXD1C3-272	50	2700	3	10	17	30	38	50	60
SXD1A3-152	100	1500	3	5	12	25	33	45	55
SXD1A3-102	100	1000	3	4	10	22	30	42	55
SXD1A3-501	100	500	3	-	-	15	25	35	50
SXD1A3-251	100	250	3	-	-	10	17	27	40
SXD1B3-101	200	100	3	-	-	3	10	20	30
SXD1B3-500	200	50	3	-	-	1	6	15	25
SXD1B3-250	200	25	3	-	-	-	1	10	22
SXD1B3-100	200	10	3	-	-	-	-	3	20
SXD1B3-5R0	200	5	3	-	-	-	-	-	15

AVX Part Number	Voltage Vdc (V)	Min. Cap (pF)	Current Idc (A)	MINIMUM NO LOAD INSERTION LOSS (db) @ 25°C PER MIL-STD-220					
				10 MHZ	30 MHZ	100 MHZ	300 MHZ	1 GHZ	10 GHZ
SYD1C3-502	50	5000	3	15	22	35	45	55	60
SYD1C3-272	50	2700	3	10	17	30	38	50	60
SYD1A3-152	100	1500	3	5	12	25	33	45	55
SYD1A3-102	100	1000	3	4	10	22	30	42	55
SYD1A3-501	100	500	3	-	-	15	25	35	50
SYD1A3-251	100	250	3	-	-	10	17	27	40
SYD1B3-101	200	100	3	-	-	3	10	20	30
SYD1B3-500	200	50	3	-	-	1	6	15	25
SYD1B3-250	200	25	3	-	-	-	1	10	22
SYD1B3-100	200	10	3	-	-	-	-	3	20
SYD1B3-5R0	200	5	3	-	-	-	-	-	15

AVX Part Number	Voltage Vdc (V)	Min. Cap (pF)	Current Idc (A)	MINIMUM NO LOAD INSERTION LOSS (db) @ 25°C PER MIL-STD-220					
				10 MHZ	30 MHZ	100 MHZ	300 MHZ	1 GHZ	10 GHZ
SZD1C3-273	50	27000	5	30	37	43	53	65	70
SZD1C3-103	50	10000	5	20	27	37	47	60	65
SZD1A3-502	100	5000	5	15	22	35	45	55	60
SZD1A3-272	100	2700	5	10	17	30	38	50	60
SZD1A3-152	100	1500	5	5	12	25	33	45	55
SZD1B3-102	200	1000	5	4	10	22	30	42	55
SZD1B3-501	200	500	5	-	-	15	25	35	50
SZD1B3-251	200	250	5	-	-	10	17	27	40
SZD1B3-101	200	100	5	-	-	3	10	20	30
SZD1B3-500	200	50	5	-	-	1	6	15	25
SZD1B3-250	200	25	5	-	-	-	1	10	22
SZD1B3-100	200	10	5	-	-	-	-	3	20
SZD1B3-5R0	200	5	5	-	-	-	-	-	15

NOTE: Dimensions in inches (millimeters). Torque limiting tool with custom adapter required for proper installation (see page 2)

### Terminals

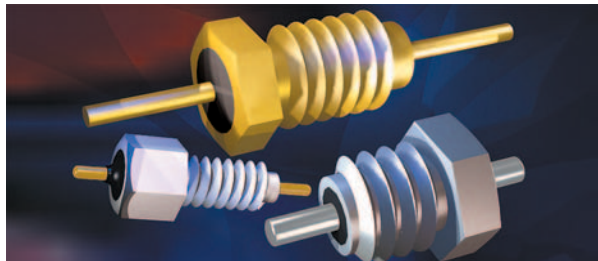
"SZD" and "SYD" Parts Only  
Slotted terminal available on one or both sides

### Mounting

- .090 Thd. Length Standard, intended for tapped hole feed through mounting
- .140 Thd. Length available for through hole mounting with hex nut

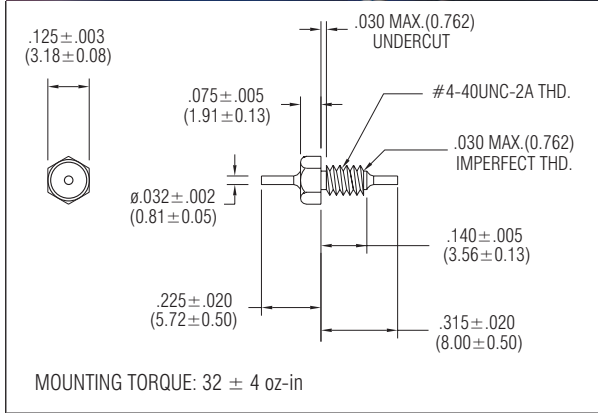
### Schematic

- "C" STANDARD
- "L1" AVAILABLE WITH EXTENDED CASE LENGTH
- "T"

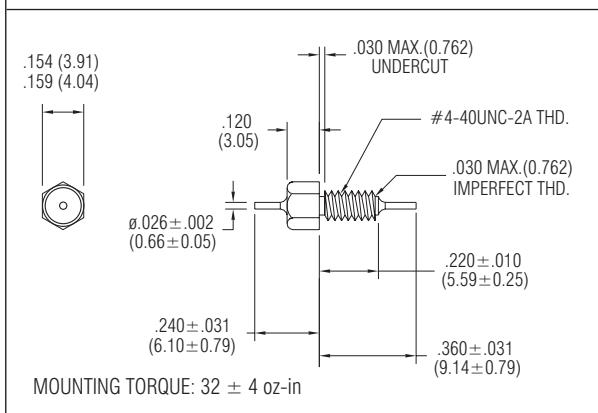


### SCREW-IN STYLE, C TYPE <sup>4-40</sup>/<sub>8-36</sub> THD.

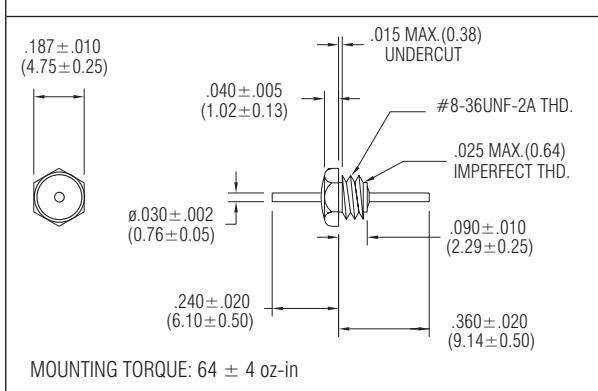
#### SPECIFICATIONS



AVX Part Number	Voltage Vdc (V)	Min. Cap (pF)	Current Idc (A)	MINIMUM NO LOAD INSERTION LOSS (db) @ 25°C PER MIL-STD-220					
				1 MHZ	10 MHZ	100 MHZ	300 MHZ	1 GHZ	10 GHZ
SA1C3-503	50	50000	10	15	35	45	55	70	70
SA1A3-273	100	27000	10	10	30	43	53	65	70
SA1A3-103	100	10000	10	4	20	37	47	60	65
SA1B3-502	200	5000	10	-	15	35	45	55	60
SA1B3-272	200	2700	10	-	10	30	38	50	60
SA1B3-152	200	1500	10	-	5	25	33	45	55
SA1B3-102	200	1000	10	-	4	22	30	42	55
SA1B3-501	200	500	10	-	-	15	25	35	50
SA1B3-251	200	250	10	-	-	10	17	27	40
SA1B3-101	200	100	10	-	-	3	10	20	30
SA1B3-500	200	50	10	-	-	1	6	15	25
SA1B3-250	200	25	10	-	-	-	1	10	22
SA1B3-100	200	10	10	-	-	-	-	3	20
SA1B3-5R0	200	5	10	-	-	-	-	-	15



SA1C1-104	50	100000	10	20	40	50	60	70	70
SA1A1-503	100	50000	10	15	35	45	55	70	70
SA1A1-273	100	27000	10	10	30	43	53	65	70
SA1B1-103	200	10000	10	4	20	37	47	60	65
SA1B1-502	200	5000	10	-	15	35	45	55	60
SA1B1-272	200	2700	10	-	10	30	38	50	60
SA1B1-102	200	1000	10	-	4	22	30	42	55
SA1B1-501	200	500	10	-	-	15	25	35	50
SA1B1-251	200	250	10	-	-	10	17	27	40
SA1B1-101	200	100	10	-	-	3	10	20	30
SA1B1-500	200	50	10	-	-	1	6	15	25
SA1B1-250	200	25	10	-	-	-	1	10	22
SA1B1-100	200	10	10	-	-	-	-	3	20
SA1B1-5R0	200	5	10	-	-	-	-	-	15



SZ1C1-503	50	50000	10	15	35	45	55	70	70
SZ1A1-273	100	27000	10	10	30	43	53	65	70
SZ1A1-103	100	10000	10	4	20	37	47	60	65
SZ1B1-502	200	5000	10	-	15	35	45	55	60
SZ1B1-272	200	2700	10	-	10	30	38	50	60
SZ1B1-152	200	1500	10	-	5	25	33	45	55
SZ1B1-102	200	1000	10	-	4	22	30	42	55
SZ1B1-501	200	500	10	-	-	15	25	35	50
SZ1B1-251	200	250	10	-	-	10	17	27	40
SZ1B1-101	200	100	10	-	-	3	10	20	30
SZ1B1-500	200	50	10	-	-	1	6	15	25
SZ1B1-250	200	25	10	-	-	-	1	10	22
SZ1B1-100	200	10	10	-	-	-	-	3	20
SZ1B1-5R0	200	5	10	-	-	-	-	-	15

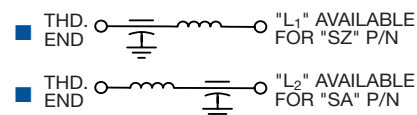
NOTE: Dimensions in inches (millimeters).

#### Leads

- Custom lead lengths and materials available
- Chamfered or rounded lead tips for mating with connectors

#### CONFIGURATION OPTIONS

#### Schematic



## Данный компонент на территории Российской Федерации

### Вы можете приобрести в компании MosChip.

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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