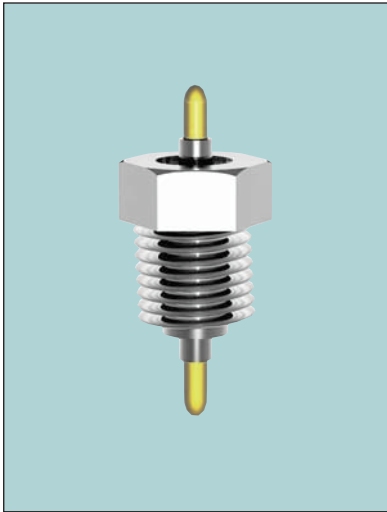


Bolt Style EMI Filters

SN Series – 12-32 Thread – Hermetically Sealed – Circuits Available – C, L, π



APPLICATIONS

The SN series offers effective filtering from 1 MHz to 10 GHz. Glass sealed on both ends for hermeticity, this series is impervious to high moisture, solvents, or other severe environmental conditions commonly encountered in military applications. It is designed for bulkhead mounting with nut and lockwasher supplied.

The feedthru designs yield constant filtering as current level is increased from

no-load to full rated load. They are most effective when placed in high impedance circuits. The π -section designs exhibit sharper roll-off in filter characteristic and perform effectively when used in medium to low impedance circuits.

Alternate lead configurations or special capacitance values and voltage ratings may be ordered.

CHARACTERISTICS

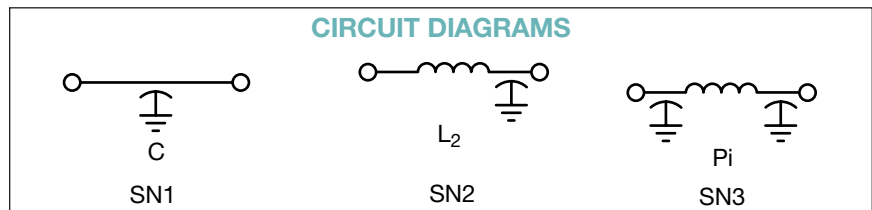
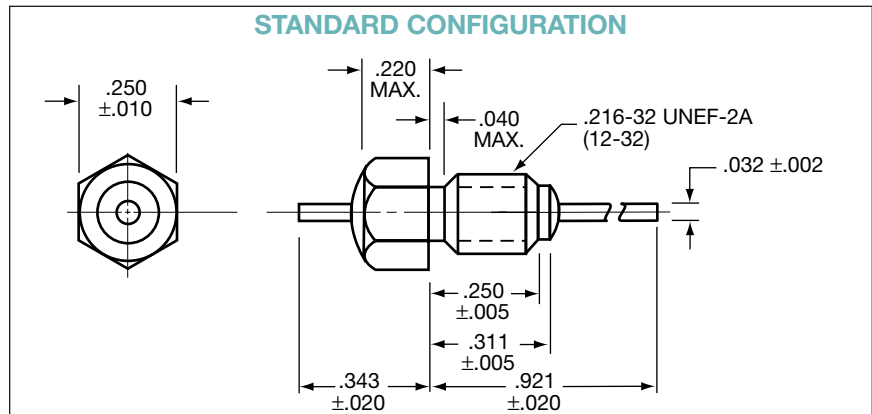
- The hermetic bolt-style design was developed to meet or exceed the applicable portions of MIL-F-28861/10. The filter is assembled with a glass hermetic seal on both ends. The rugged monolithic capacitor element is a low inductance design that yields superior

bypass performance. The π -section design contains two capacitor elements together with a ferrite bead inductor.

- Certain feedthru designs are rated for 115 VAC/400 Hz applications. The 200 VDC π -section design is rated for DC applications only.

SPECIFICATIONS

- Plating: Silver standard – Electro-tin or gold available
- Material:
 - Case: Cold rolled steel standard, brass available
 - Leads: Copper nailhead standard. Only available in .032" diameter. Beryllium copper lead available. Straight lead available.
- Operating Temperature Range: -55°C to +125°C
- Electrical Characteristics:
 - Capacitance: Guaranteed Minimum Value (GMV) as listed
 - Insulation Resistance:
 - At 25°C: 1,000 megohm-microfarad min., or 100,000 megohms min., whichever is less
 - At 125°C: 100 megohm-microfarad min., or 10,000 megohms min., whichever is less
 - Dielectric Withstanding Voltage (DWW):
 - R-level designs: 2.0 times rated voltage
 - Class B, Class S designs: 2.5 times rated voltage
 - DC Resistance (DCR): .01 ohm, maximum
 - Voltage Drop: 0.1 volt, maximum
 - Dissipation Factor (DF): 3% maximum
 - Rated Current: 10 Amps, maximum
- Seal: In accordance with MIL-F-28861. Leakage rate for Class S designs shall not exceed 1×10^{-7} atm cc/sec.
- Marking: Standard (AVX symbol, AVX part number)
- Installation: Filter is supplied with mounting nut and lockwasher. The recommended mounting torque is 64 oz-in. \pm 4 oz-in. Refer to the "Installation and Handling" section for additional information.



millimeters (inches)

0.05 (.002)	1.85 (.073)
0.13 (.005)	3.99 (.157)
0.18 (.007)	5.49 (.216)
0.25 (.010)	6.12 (.241)
0.51 (.020)	6.35 (.250)
0.58 (.023)	7.90 (.311)
0.79 (.031)	8.71 (.343)
0.81 (.032)	9.45 (.372)
1.02 (.040)	9.73 (.383)
1.14 (.045)	23.39 (.921)
1.60 (.063)	—

(See Note 1)

Notes:

- Metric equivalent dimensions given for information only.

Bolt Style EMI Filters

SN Series – 12-32 Thread - Hermetically Sealed –

Circuits Available – C, L, π



SPECIFICATIONS

AVX P/N	CKT	CAP ¹	Voltage	DCR	Insertion Loss ² Per MIL-STD-220, +25°C					
					1 MHz	10 MHz	100 MHz	200 MHz	1 GHz	10 GHz
SN1C1-204	C	.20	50	.01	26	39	52	60	70	70
SN2C1-204	L2	.20	50	.01	26	38	65	70	70	70
SN3C1-124	π	.12	50	.01	20	38	70	70	70	70
SN1A1-503	C	.05	100	.01	15	35	42	50	70	70
SN1A1-104	C	.10	100	.01	20	38	48	53	70	70
SN2A1-503	L2	.05	100	.01	15	36	54	60	70	70
SN3A1-753	π	.075	100	.01	18	38	70	70	70	70
SN1L1-102	C	1000	200*	.01	–	4	20	25	40	50
SN1L1-502	C	5000	200*	.01	–	15	34	41	50	55
SN1L1-103	C	.01	200*	.01	4	21	35	40	55	60
SN1L1-253	C	.025	200*	.01	8	28	36	44	64	70
SN2L1-102	L2	1000	200*	.01	–	4	20	27	45	70
SN2L1-502	L2	5000	200*	.01	–	15	35	41	55	70
SN2L1-103	L2	.01	200*	.01	4	21	35	38	65	70
SN3B1-152	π	1500	200	.01	–	8	20	45	70	70
SN3B1-123	π	.012	200	.01	–	12	60	70	70	70

* Rated 200 VDC or 125 VAC/400 Hz

¹ Decimal point values indicate capacitance in microfarads.
Non-decimal point values indicate capacitance in picofarads.

² Insertion loss limits are based on theoretical values.
Actual measurements may vary due to internal capacitor resonances and other design constraints.