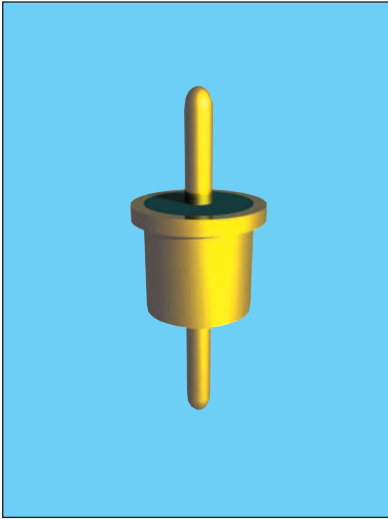


Solder-In Style High Temp EMI Filters

ZZ Series – .118 Dia. – Circuits Available - C



APPLICATIONS

The ZZ series is intended for use as a high reliability alternative to a commonly available commercial filter type. Due to its smaller body diameter, capacitance is limited. It does provide effective filtering in the MICROWAVE frequency spectrum from 100 MHz through 26 GHz. Designed to be soldered into a package, bracket or bulkhead (and maintain hermeticity),

it is ideal for high impedance circuits where large capacitance values are not practical.

Alternate lead lengths or special capacitance values are available upon request.

Custom packages or bracket assemblies utilizing this feedthru can be furnished to your specifications.

CHARACTERISTICS

- High temperature construction with-stands 300°C installation temperatures.
- Features rugged monolithic discoidal capacitor construction.

- Glass hermetic seal on one end with epoxy seal on the opposite end.

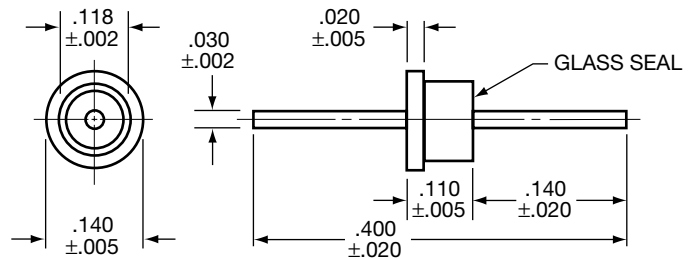
- High purity gold plating provides excellent solderability or compatibility with thermal and ultrasonic wire bonding.

SPECIFICATIONS

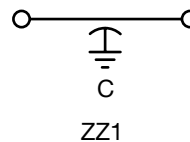
1. Finish: Gold standard –
Silver and solder coat available
2. Material:
Case: Cold rolled steel
Leads: Alloy 52 steel
3. Operating Temperature Range:
-55°C to +125°C
4. Insulation Resistance:
At 25°C: 1,000 megohm-microfarad min., or 100,000 megohms min., whichever is less
At 125°C: 100 megohm-microfarad min., or 10,000 megohms min., whichever is less
5. Dielectric Withstanding Voltage (DWW):
R-level designs:
2.0 times rated DC voltage
Class B, Class S designs:
2.5 times rated DC voltage
6. DC Resistance (DCR): .01 ohm, maximum
7. Dissipation Factor (DF): 3% maximum
8. Rated DC Current: 5 Amps, maximum
9. Maximum Installation Temperature:
300°C
10. Supplied with 60/40 solder preform for easy installation

STANDARD CONFIGURATION

(See Note 1)



CIRCUIT DIAGRAMS



millimeters (inches)

0.05 (.002)	3.05 (.120)
0.13 (.005)	3.43 (.135)
0.51 (.020)	3.56 (.140)
1.02 (.040)	3.68 (.145)
2.79 (.110)	10.16 (.400)
2.95 (.116)	— —

(See Note 2)

Notes:

1. Glass seal on end opposite flange.
2. Metric equivalent dimensions given for information only.

Solder-In Style High Temp EMI Filters

ZZ Series – .118 Dia. – Circuits Available – C

SPECIFICATIONS

AVX P/N	Current AMP	CKT	DC Voltage	CAP ¹ Min.	Insertion Loss ² Per MIL-STD-220, +25°C				
					1 MHz	10 MHz	100 MHz	1000 MHz	10 GHz
ZZ1C3-250H	5	C	50	25	–	–	–	10	15
ZZ1C3-500H	5	C	50	50	–	–	1	15	25
ZZ1C3-101H	5	C	50	100	–	–	3	20	30
ZZ1C3-102H	5	C	50	1000	–	4	20	31	55
ZZ1C3-152H	5	C	50	1500	–	5	21	42	55
ZZ1A3-250H	5	C	100	25	–	–	–	10	15
ZZ1A3-500H	5	C	100	50	–	–	1	15	25
ZZ1A3-101H	5	C	100	100	–	–	3	20	30
ZZ1A3-102H	5	C	100	1000	–	4	18	36	55
ZZ1A3-152H	5	C	100	1500	–	5	21	42	55
ZZ1B3-250H	5	C	200	25	–	–	–	10	15
ZZ1B3-500H	5	C	200	50	–	–	1	15	25
ZZ1B3-101H	5	C	200	100	–	–	3	20	30
ZZ1B3-102H	5	C	200	1000	–	4	18	36	55

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.

For special multi-unit assemblies see Multi-Component Filter Brackets section.