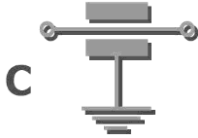
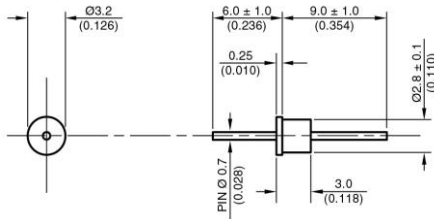


Solder Mount EMI Filter Datasheet
(2.8mm Body Diameter, Epoxy Sealed)

Circuit Configuration



Dimensions mm (inches)



| Electrical Details | |
|------------------------------|----------------------------------|
| Electrical Configuration | C Filter |
| Capacitance Measurement | @ 1000hr Point |
| Current Rating | 10A |
| Insulation Resistance (IR) | 10GΩ or 1000ΩF |
| Temperature Rating | -55°C to +125°C |
| Ferrite Inductance (Typical) | Not Applicable |
| Mechanical Details | |
| Body Flange Diameter | 3.2mm (0.126") |
| Mounting Hole Diameter | 3.0mm (0.118") |
| Max Soldering Temperature | 250°C |
| Temperature Rise | Less than 4°C per second |
| Soldering Time | 10 seconds maximum |
| Solder Type | Sn62/SAC or equivalent |
| Weight (Typical) | 0.4g (0.015oz) |
| Finish | Silver plate on copper undercoat |

| Product Code | Capacitance -20 +80% | Dielectric | Rated Voltage (dc) | DWV (dc) | Typical Insertion Loss (db) | | | | | |
|------------------|-------------------------|------------|-----------------------|-------------|-----------------------------|--------|------|-------|--------|------|
| | | | | | 0.01MHz | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| *SFSRC5000100ZC0 | 10pF | C0G | 500# | 750 | | | | | | 4 |
| SFSRC5000220ZC0 | 22pF | C0G | 500# | 750 | | | | | | 10 |
| SFSRC5000470ZC0 | 47pF | C0G | 500# | 750 | | | | | 1 | 15 |
| *SFSRC5000101ZC0 | 100pF | C0G | 500# | 750 | | | | | 4 | 22 |
| SFSRC5000221ZC0 | 220pF | C0G | 500# | 750 | | | | | 10 | 29 |
| SFSRC5000471ZX0 | 470pF | X7R | 500# | 750 | | | | 1 | 16 | 35 |
| *SFSRC5000102ZX0 | 1.0nF | X7R | 500# | 750 | | | | 4 | 23 | 41 |
| SFSRC5000222ZX0 | 2.2nF | X7R | 500# | 750 | | | | 10 | 30 | 50 |
| *SFSRC5000472ZX0 | 4.7nF | X7R | 500# | 750 | | | | 1 | 16 | 36 |
| *SFSRC2000103ZX0 | 10nF | X7R | 200 | 500 | | | | 4 | 22 | 41 |
| *SFSRC1000223ZX0 | 22nF | X7R | 100 | 250 | | | | 10 | 29 | 46 |
| *SFSRC0500473ZX0 | 47nF | X7R | 50 | 125 | | 1 | 16 | 35 | 50 | 70 |

- Also rated for operation at 115Vac 400Hz. Self-heating will occur – evaluation in situ recommended

* Recommended values

Ordering Information

| Type | Case Style | Diameter | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Capacitance Tolerance | Dielectric | Nuts & washers |
|--------------|------------|----------|--------------------------|---|--|-----------------------|------------------------|----------------|
| SF | S | R | C | 500 | 0102 | M | X | 0 |
| Syfer Filter | Solder | 2.8mm | C = C Filter | 050 = 50V 100 = 100V 200 = 200V 500 = 500V | First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is the number of zeros following. Examples: 0101 = 100pF 0332 = 3300pF | Z = -20+80% | C = C0G/NP0 X = X7R | 0 = Without |

Note: The addition of a 4-digit numerical suffix code can be used to denote changes to the standard part.

Options include for example: change of pin length / custom body dimensions or threads / alternative voltage rating / non-standard intermediate capacitance values / test requirements.

Please refer specific requests to the factory.

