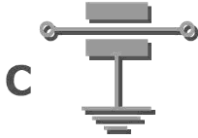
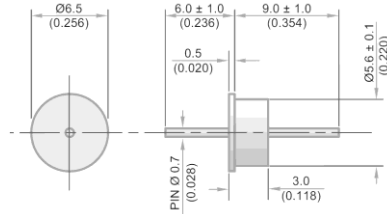


Solder Mount EMI Filter Datasheet
(5.6mm Body Diameter, Epoxy Sealed)

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 | 6.5mm (0.256") |
| Mounting Hole Diameter | 5.8mm (0.228") |
| 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) | 0.7g (0.025oz) |
| Finish | Silver plate on copper undercoat |

| Product Code | Capacitance ±20% UOS | Dielectric | Rated Voltage (dc) | DWV (dc) | Typical Insertion Loss (db) | | | | | |
|------------------|-------------------------|------------|-----------------------|-------------|-----------------------------|--------|------|-------|--------|------|
| | | | | | 0.01MHz | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| *SFSUC5000100ZC0 | 10pF -20% / +80% | C0G | 500# | 750 | | | | | | 4 |
| SFSUC5000150ZC0 | 15pF -20% / +80% | C0G | 500# | 750 | | | | | | 7 |
| SFSUC5000220ZC0 | 22pF -20% / +80% | C0G | 500# | 750 | | | | | | 10 |
| SFSUC5000330ZC0 | 33pF -20% / +80% | C0G | 500# | 750 | | | | | | 12 |
| *SFSUC5000470ZC0 | 47pF -20% / +80% | C0G | 500# | 750 | | | | | 1 | 15 |
| *SFSUC5000680MC0 | 68pF | C0G | 500# | 750 | | | | | 2 | 18 |
| *SFSUC5000101MC0 | 100pF | C0G | 500# | 750 | | | | | 4 | 22 |
| SFSUC5000151MC0 | 150pF | C0G | 500# | 750 | | | | | 7 | 25 |
| *SFSUC5000221MC0 | 220pF | C0G | 500# | 750 | | | | | 10 | 29 |
| *SFSUC5000331MC0 | 330pF | C0G | 500# | 750 | | | | | 13 | 33 |
| *SFSUC5000471MC0 | 470pF | C0G | 500# | 750 | | | | 1 | 16 | 35 |
| SFSUC5000681MC0 | 680pF | C0G | 500# | 750 | | | | 2 | 19 | 36 |
| *SFSUC5000102MX0 | 1.0nF | X7R | 500# | 750 | | | | 4 | 23 | 41 |
| SFSUC5000152MX0 | 1.5nF | X7R | 500# | 750 | | | | 7 | 26 | 45 |
| *SFSUC5000222MX0 | 2.2nF | X7R | 500# | 750 | | | | 10 | 30 | 50 |
| SFSUC5000332MX0 | 3.3nF | X7R | 500# | 750 | | | | 13 | 33 | 52 |
| *SFSUC5000472MX0 | 4.7nF | X7R | 500# | 750 | | | 1 | 16 | 36 | 55 |
| SFSUC5000682MX0 | 6.8nF | X7R | 500# | 750 | | | 2 | 19 | 39 | 57 |
| *SFSUC5000103MX0 | 10nF | X7R | 500# | 750 | | | 4 | 22 | 41 | 60 |
| *SFSUC5000153MX0 | 15nF | X7R | 500# | 750 | | | 7 | 25 | 44 | 62 |
| *SFSUC5000223MX0 | 22nF | X7R | 500# | 750 | | | 10 | 29 | 46 | 65 |
| SFSUC5000333MX0 | 33nF | X7R | 500# | 750 | | | 13 | 33 | 48 | 68 |
| *SFSUC5000473MX0 | 47nF | X7R | 500# | 750 | | 1 | 16 | 35 | 50 | 70 |
| *SFSUC5000683MX0 | 68nF | X7R | 500# | 750 | | 2 | 19 | 39 | 54 | >70 |
| *SFSUC5000104MX0 | 100nF | X7R | 500# | 750 | | 4 | 22 | 41 | 57 | >70 |
| SFSUC5000154MX0 | 150nF | X7R | 500# | 750 | | 7 | 25 | 45 | 60 | >70 |
| *SFSUC2000224MX0 | 220nF | X7R | 200 | 500 | | 10 | 29 | 49 | 62 | >70 |
| SFSUC1000334MX0 | 330nF | X7R | 100 | 250 | | 13 | 33 | 52 | 66 | >70 |
| *SFSUC1000474MX0 | 470nF | X7R | 100 | 250 | 1 | 16 | 35 | 55 | 68 | >70 |
| SFSUC0500684MX0 | 680nF | X7R | 50 | 125 | 2 | 19 | 38 | 58 | 70 | >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 | U | C | 500 | 0102 | M | X | 0 |
| Syfer Filter | Solder | 5.6mm | 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 | M = ±20% 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.

