



### 3.25mm Body Diameter Epoxy Sealed

#### 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      | 4.0mm (0.157")                   |
| Mounting Hole Diameter    | 3.5mm (0.138")                   |
| 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<br>(±20%) UOS | Dielectric | Rated<br>Voltage<br>(Vdc) | DWV<br>(Vdc) | Typical No-Load Insertion Loss (dB) |        |      |       |        |      |
|------------------|---------------------------|------------|---------------------------|--------------|-------------------------------------|--------|------|-------|--------|------|
|                  |                           |            |                           |              | 0.01MHz                             | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| SFSTC5000100ZC0  | 10pF -20% / +80%          | COG/NP0    | 500#                      | 750          | -                                   | -      | -    | -     | -      | 4    |
| SFSTC5000150ZC0  | 15pF -20% / +80%          |            |                           |              | -                                   | -      | -    | -     | -      | 7    |
| SFSTC5000220ZC0  | 22pF -20% / +80%          |            |                           |              | -                                   | -      | -    | -     | -      | 10   |
| SFSTC5000330ZC0  | 33pF -20% / +80%          |            |                           |              | -                                   | -      | -    | -     | -      | 12   |
| SFSTC5000470ZC0  | 47pF -20% / +80%          |            |                           |              | -                                   | -      | -    | -     | 1      | 15   |
| SFSTC5000680MC0  | 68pF                      |            |                           |              | -                                   | -      | -    | -     | 2      | 18   |
| *SFSTC5000101MC0 | 100pF                     |            |                           |              | -                                   | -      | -    | -     | 4      | 22   |
| SFSTC5000151MC0  | 150pF                     |            |                           |              | -                                   | -      | -    | -     | 7      | 25   |
| SFSTC5000221MC0  | 220pF                     |            |                           |              | -                                   | -      | -    | -     | 10     | 29   |
| SFSTC5000331MC0  | 330pF                     |            |                           |              | -                                   | -      | -    | -     | 13     | 33   |
| SFSTC5000471MC0  | 470pF                     | X7R        |                           |              | -                                   | -      | -    | 1     | 16     | 35   |
| SFSTC5000681MC0  | 680pF                     |            |                           |              | -                                   | -      | -    | 2     | 19     | 39   |
| SFSTC5000102MX0  | 1.0nF                     |            |                           |              | -                                   | -      | -    | 4     | 23     | 41   |
| *SFSTC5000152MX0 | 1.5nF                     |            |                           |              | -                                   | -      | -    | 7     | 26     | 45   |
| *SFSTC5000222MX0 | 2.2nF                     |            |                           |              | -                                   | -      | -    | 10    | 30     | 50   |
| *SFSTC5000332MX0 | 3.3nF                     |            |                           |              | -                                   | -      | -    | 13    | 33     | 52   |
| *SFSTC5000472MX0 | 4.7nF                     |            |                           |              | -                                   | -      | 1    | 16    | 36     | 55   |
| SFSTC5000682MX0  | 6.8nF                     |            |                           |              | -                                   | -      | 2    | 19    | 39     | 57   |
| *SFSTC5000103MX0 | 10nF                      |            |                           |              | -                                   | -      | 4    | 22    | 41     | 60   |
| SFSTC5000153MX0  | 15nF                      |            |                           |              | -                                   | -      | 7    | 25    | 44     | 62   |
| *SFSTC5000223MX0 | 22nF                      |            |                           |              | -                                   | -      | 10   | 29    | 46     | 65   |
| *SFSTC3000333MX0 | 33nF                      |            | 300                       | 600          | -                                   | -      | 13   | 33    | 48     | 68   |
| SFSTC2000473MX0  | 47nF                      |            | 200                       | 500          | -                                   | 1      | 16   | 35    | 50     | 70   |
| SFSTC1000683MX0  | 68nF                      |            | 100                       | 250          | -                                   | 2      | 19   | 39    | 54     | >70  |
| SFSTC0500104MX0  | 100nF                     |            | 50                        | 125          | -                                   | 4      | 22   | 41    | 57     | >70  |

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

\* Recommended values.

#### Ordering Information - SFSTC range

| SF           | S          | T      | C                        | 500                                                                                                  | 0223                                                                                                                                                                                         | M                                     | X                                    | O                  |
|--------------|------------|--------|--------------------------|------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------|--------------------------------------|--------------------|
| Type         | Case style | Dia.   | Electrical configuration | Voltage (dc)                                                                                         | Capacitance in picofarads (pF)                                                                                                                                                               | Tolerance                             | Dielectric                           | Nuts & Washers     |
| Syfer Filter | Solder     | 3.25mm | C = C Filter             | <b>050</b> = 50V<br><b>100</b> = 100V<br><b>200</b> = 200V<br><b>300</b> = 300V<br><b>500</b> = 500V | First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following<br>Example: <b>0101</b> = 100pF<br><b>0332</b> = 3300pF | <b>M</b> = ±20%<br><b>Z</b> = -20+80% | <b>C</b> = COG/NP0<br><b>X</b> = X7R | <b>O</b> = 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 finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.