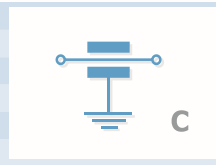


**Electrical Details**

|                              |                 |
|------------------------------|-----------------|
| 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 (±20%) UOS | Dielectric | Rated Voltage (Vdc) | DWV (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                  |            |                     |           | -                                   | -      | -    | 1     | 16     | 35   |    |    |     |
| SFSTC5000681MC0  | 680pF                  |            |                     |           | -                                   | -      | -    | 2     | 19     | 39   |    |    |     |
| SFSTC5000102MX0  | 1.0nF                  |            |                     |           | X7R                                 | 300    | 600  | -     | -      | -    | 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                   | -          | 200                 | 500       |                                     |        |      | -     | 1      | 16   | 35 | 50 | 70  |
| SFSTC2000473MX0  | 47nF                   | -          | 100                 | 250       |                                     |        |      | -     | 2      | 19   | 39 | 54 | >70 |
| SFSTC1000683MX0  | 68nF                   | -          | 50                  | 125       |                                     |        |      | -     | 4      | 22   | 41 | 57 | >70 |
| SFSTC0500104MX0  | 100nF                  | -          |                     |           |                                     |        |      |       |        |      |    |    |     |

# 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.<br>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.