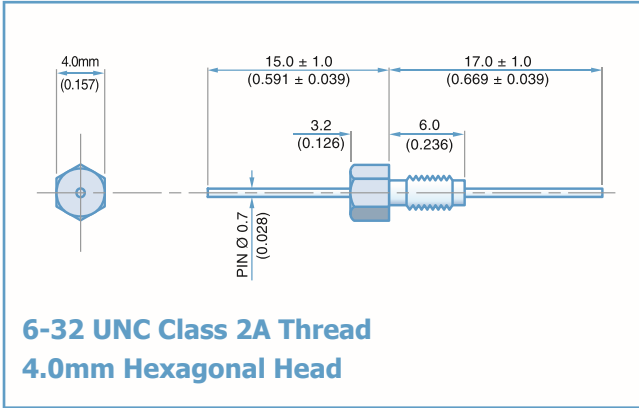




**THE DATASHEET OF  
SFABL5000471MX1**





| 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           |   |
| Head (A/F)                   | 4mm (0.157")  |
| Nut A/F                      | 4.75mm (0.187")   |
| Washer diameter              | 6.9mm (0.272")  |
| Mounting Torque              | 0.3Nm (2.65lbf in) max. if using nut<br>0.15Nm (1.32lbf in) max. into tapped hole |
| Mounting Hole Diameter       | 3.7mm ±0.1 (0.146" ±0.004")   |
| Max. Panel Thickness         | 3.2mm (0.126")  |
| Weight (Typical)             | 0.6g (0.02oz)   |
| Finish                       | Silver plate on copper undercoat  |

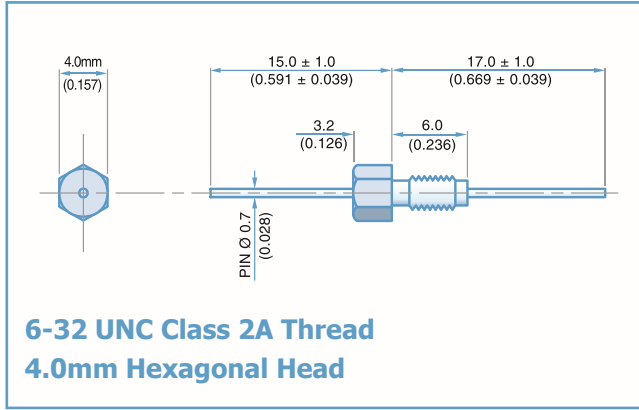
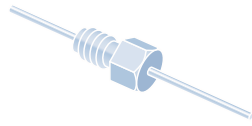
| Product Code    | Capacitance (±20%) UOS | Dielectric | Rated Voltage (Vdc) | DWV (Vdc) | Typical No-Load Insertion Loss (dB) |        |      |       |        |      |
|-----------------|------------------------|------------|---------------------|-----------|-------------------------------------|--------|------|-------|--------|------|
|                 |                        |            |                     |           | 0.01MHz                             | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| *SFABC5000100ZC | 10pF -20% / +80%       | COG/NPO    | 500#                | 750       | -                                   | -      | -    | -     | -      | 4    |
| SFABC5000150ZC  | 15pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 7    |
| SFABC5000220ZC  | 22pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 10   |
| SFABC5000330ZC  | 33pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 12   |
| *SFABC5000470ZC | 47pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | 1      | 15   |
| *SFABC5000680MC | 68pF                   |            |                     |           | -                                   | -      | -    | -     | 2      | 18   |
| *SFABC5000101MC | 100pF                  |            |                     |           | -                                   | -      | -    | -     | 4      | 22   |
| SFABC5000151MC  | 150pF                  |            |                     |           | -                                   | -      | -    | -     | 7      | 25   |
| *SFABC5000221MC | 220pF                  |            |                     |           | -                                   | -      | -    | -     | 10     | 29   |
| *SFABC5000331MC | 330pF                  |            |                     |           | -                                   | -      | -    | -     | 13     | 33   |
| *SFABC5000471MX | 470pF                  | †X7R       | 500#                | 750       | -                                   | -      | -    | 1     | 16     | 35   |
| SFABC5000681MX  | 680pF                  | -          |                     |           | -                                   | -      | 2    | 19    | 36     |      |
| *SFABC5000102MX | 1.0nF                  | X7R        |                     |           | -                                   | -      | -    | 4     | 23     | 41   |
| SFABC5000152MX  | 1.5nF                  |            |                     |           | -                                   | -      | -    | 7     | 26     | 45   |
| *SFABC5000222MX | 2.2nF                  |            |                     |           | -                                   | -      | -    | 10    | 30     | 50   |
| SFABC5000332MX  | 3.3nF                  |            |                     |           | -                                   | -      | -    | 13    | 33     | 52   |
| *SFABC5000472MX | 4.7nF                  |            |                     |           | -                                   | -      | 1    | 16    | 36     | 55   |
| SFABC5000682MX  | 6.8nF                  |            |                     |           | -                                   | -      | 2    | 19    | 39     | 57   |
| *SFABC5000103MX | 10nF                   |            |                     |           | -                                   | -      | 4    | 22    | 41     | 60   |
| *SFABC5000153MX | 15nF                   |            |                     |           | -                                   | -      | 7    | 25    | 44     | 62   |
| *SFABC5000223MX | 22nF                   |            | -                   | -         | 10                                  | 29     | 46   | 65    |        |      |
| SFABC5000333MX  | 33nF                   |            | -                   | -         | 13                                  | 33     | 48   | 68    |        |      |
| *SFABC2000473MX | 47nF                   |            | 200                 | 500       | -                                   | 1      | 16   | 35    | 50     | 70   |
| SFABC2000683MX  | 68nF                   |            | -                   | 2         | 19                                  | 39     | 54   | >70   |        |      |
| *SFABC2000104MX | 100nF                  |            | 100                 | 250       | -                                   | 4      | 22   | 41    | 57     | >70  |
| *SFABC0500154MX | 150nF                  |            | 50                  | 125       | -                                   | 7      | 25   | 45    | 60     | >70  |

# Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. \* Recommended values. † Also available in COG/NPO.

Ordering Information - SFABC range

| SF           | A              | B        | C                        | 500   | 0102  | M                                     | X                                    | 0                                     |
|--------------|----------------|----------|--------------------------|---|---|---------------------------------------|--------------------------------------|---------------------------------------|
| Type         | Case style     | Thread   | Electrical configuration | Voltage (dc)  | Capacitance in picofarads (pF)  | Tolerance                             | Dielectric                           | Hardware                              |
| Syfer Filter | 4.0mm Hex Head | 6-32 UNC | C = C Filter             | <b>050</b> = 50V<br><b>100</b> = 100V<br><b>200</b> = 200V<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/NPO<br><b>X</b> = X7R | <b>0</b> = Without<br><b>1</b> = With |

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.



### Electrical Details

|                              |                 |
|------------------------------|-----------------|
| Electrical Configuration     | L-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) | 50nH            |



### Mechanical Details

|                        |   |
|------------------------|---|
| Head (A/F)             | 4.0mm (0.157")  |
| Nut A/F                | 4.75mm (0.187")   |
| Washer diameter        | 6.9mm (0.272")  |
| Mounting Torque        | 0.3Nm (2.65lbf in) max. if using nut<br>0.15Nm (1.32lbf in) max. into tapped hole |
| Mounting Hole Diameter | 3.7mm ±0.1 (0.146" ±0.004")   |
| Max. Panel Thickness   | 3.2mm (0.126")  |
| Weight (Typical)       | 0.6g (0.02oz)   |
| 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 |
| *SFABL5000100ZC | 10pF -20% / +80%       | COG/NP0    | 500#                | 750       | -                                   | -      | -    | -     | -      | 6    |
| SFABL5000150ZC  | 15pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 9    |
| SFABL5000220ZC  | 22pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 12   |
| SFABL5000330ZC  | 33pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | 1      | 15   |
| *SFABL5000470ZC | 47pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | 2      | 19   |
| *SFABL5000680MC | 68pF                   |            |                     |           | -                                   | -      | -    | -     | 4      | 20   |
| *SFABL5000101MC | 100pF                  |            |                     |           | -                                   | -      | -    | -     | 7      | 24   |
| SFABL5000151MC  | 150pF                  |            |                     |           | -                                   | -      | -    | -     | 10     | 27   |
| *SFABL5000221MC | 220pF                  |            |                     |           | -                                   | -      | -    | -     | 12     | 30   |
| *SFABL5000331MC | 330pF                  |            |                     |           | -                                   | -      | -    | 1     | 16     | 34   |
| *SFABL5000471MX | 470pF                  | †X7R       | 500#                | 750       | -                                   | -      | -    | 2     | 19     | 38   |
| SFABL5000681MX  | 680pF                  |            |                     |           | -                                   | -      | -    | 3     | 22     | 41   |
| *SFABL5000102MX | 1.0nF                  | X7R        | 200                 | 500       | -                                   | -      | -    | 6     | 25     | 44   |
| SFABL5000152MX  | 1.5nF                  |            |                     |           | -                                   | -      | -    | 9     | 29     | 48   |
| *SFABL5000222MX | 2.2nF                  |            |                     |           | -                                   | -      | -    | 12    | 31     | 51   |
| SFABL5000332MX  | 3.3nF                  |            |                     |           | -                                   | -      | -    | 15    | 35     | 54   |
| *SFABL5000472MX | 4.7nF                  |            |                     |           | -                                   | -      | 1    | 18    | 39     | 57   |
| SFABL5000682MX  | 6.8nF                  |            |                     |           | -                                   | -      | 2    | 21    | 41     | 60   |
| *SFABL5000103MX | 10nF                   |            |                     |           | -                                   | -      | 4    | 23    | 43     | 63   |
| *SFABL5000153MX | 15nF                   |            |                     |           | -                                   | -      | 7    | 27    | 46     | 66   |
| *SFABL5000223MX | 22nF                   |            |                     |           | -                                   | -      | 10   | 30    | 48     | 68   |
| SFABL5000333MX  | 33nF                   |            |                     |           | -                                   | -      | 13   | 34    | 50     | 70   |
| *SFABL2000473MX | 47nF                   | 500        | 100                 | 250       | -                                   | 1      | 17   | 37    | 51     | >70  |
| SFABL2000683MX  | 68nF                   |            |                     |           | -                                   | 2      | 20   | 40    | 55     | >70  |
| *SFABL1000104MX | 100nF                  |            |                     |           | -                                   | 4      | 22   | 44    | 60     | >70  |
| *SFABL0500154MX | 150nF                  | 50         | 100                 | 125       | -                                   | 7      | 25   | 47    | 62     | >70  |
|                 |                        |            |                     |           |                                     |        |      |       |        |      |

# Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. \* Recommended values. † Also available in COG/NP0.

### Ordering Information- SFABL range

| SF           | A              | B        | L                        | 500   | 0333  | M                                     | X                                    | 0                                     |
|--------------|----------------|----------|--------------------------|---|---|---------------------------------------|--------------------------------------|---------------------------------------|
| Type         | Case style     | Thread   | Electrical configuration | Voltage (dc)  | Capacitance in picofarads (pF)  | Tolerance                             | Dielectric                           | Hardware                              |
| Syfer Filter | 4.0mm Hex Head | 6-32 UNC | L = L-C Filter           | <b>050</b> = 50V<br><b>100</b> = 100V<br><b>200</b> = 200V<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>0</b> = Without<br><b>1</b> = With |

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.

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