

### M6 x 0.75 - 6g Thread 9.8mm Round Head

#### Electrical Details

|                              |                 |
|------------------------------|-----------------|
| Electrical Configuration     | C Filter        |
| Capacitance Measurement      | @ 1000hr Point  |
| Current Rating               | 15A             |
| Insulation Resistance (IR)   | 10GΩ or 1000ΩF  |
| Temperature Rating           | -55°C to +125°C |
| Ferrite Inductance (Typical) | Not Applicable  |



#### Mechanical Details

|                        |                                           |
|------------------------|-------------------------------------------|
| Head Diameter          | 9.8mm (0.386")                            |
| Nut A/F                | 8.0mm (0.315")                            |
| Washer Diameter        | 11.35mm (0.447")                          |
| Mounting Torque        | 0.9Nm (7.97lbf in) max.                   |
| Mounting Hole Diameter | 6.2mm (0.244") O.D.<br>5.3mm (0.208") A/F |
| Max. Panel Thickness   | 2.9mm (0.114")                            |
| Weight (Typical)       | 3.0g (0.11oz)                             |
| Finish                 | Silver plate on copper undercoat          |

| Product Code    | Capacitance<br>(±20%) | Dielectric | Rated<br>Voltage<br>(Vdc) | DWV<br>(Vdc) | Typical No-Load Insertion Loss (dB) |        |      |       |        |      |
|-----------------|-----------------------|------------|---------------------------|--------------|-------------------------------------|--------|------|-------|--------|------|
|                 |                       |            |                           |              | 0.01MHz                             | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| SFJNC3K00101MC  | 100pF                 | COG/NPO    | 3kV#                      | 3.6kV        |                                     |        |      |       | 4      | 22   |
| SFJNC3K00151MC  | 150pF                 |            |                           |              |                                     |        |      |       | 7      | 25   |
| SFJNC3K00221MC  | 220pF                 |            |                           |              |                                     |        |      |       | 10     | 29   |
| SFJNC2K00331MC  | 330pF                 |            |                           |              |                                     |        |      |       | 13     | 33   |
| SFJNC2K00471MC  | 470pF                 |            |                           |              |                                     |        |      | 1     | 16     | 35   |
| SFJNC2K00681MC  | 680pF                 |            |                           |              |                                     |        |      | 2     | 19     | 39   |
| SFJNC2K00102MC  | 1.0nF                 | X7R        | 2kV#                      | 2.4kV        |                                     |        |      | 4     | 23     | 41   |
| SFJNC2K00152MX  | 1.5nF                 |            |                           |              |                                     |        |      | 7     | 26     | 45   |
| SFJNC2K00222MX  | 2.2nF                 |            |                           |              |                                     |        |      | 10    | 30     | 50   |
| *SFJNC2K00332MX | 3.3nF                 |            |                           |              |                                     |        |      | 13    | 33     | 52   |
| SFJNC2K00472MX  | 4.7nF                 |            |                           |              |                                     |        | 1    | 16    | 36     | 55   |
| *SFJNC2K00682MX | 6.8nF                 |            |                           |              |                                     |        | 2    | 19    | 39     | 57   |
| *SFJNC2K00103MX | 10nF                  |            |                           |              |                                     |        | 4    | 22    | 41     | 60   |
| SFJNC1K00153MX  | 15nF                  |            |                           |              |                                     |        | 7    | 25    | 44     | 62   |
| SFJNC1K00223MX  | 22nF                  |            |                           |              |                                     |        | 10   | 29    | 46     | 65   |
| *SFJNC1K00333MX | 33nF                  |            |                           |              |                                     |        | 13   | 33    | 48     | 68   |
| SFJNC1K00473MX  | 47nF                  |            | 1kV#                      | 1.2kV        |                                     | 1      | 16   | 35    | 50     | 70   |
| *SFJNC1K00683MX | 68nF                  |            |                           |              |                                     | 2      | 19   | 39    | 54     | >70  |
| SFJNC5000104MX  | 100nF                 |            |                           |              |                                     | 4      | 22   | 41    | 57     | >70  |
| *SFJNC5000154MX | 150nF                 |            |                           |              |                                     | 7      | 25   | 45    | 60     | >70  |
| SFJNC5000224MX  | 220nF                 |            | 500#                      | 750          |                                     | 10     | 29   | 49    | 62     | >70  |
| *SFJNC5000334MX | 330nF                 |            |                           |              |                                     | 13     | 33   | 52    | 66     | >70  |
| SFJNC5000474MX  | 470nF                 |            |                           |              | 1                                   | 16     | 35   | 55    | 68     | >70  |
| SFJNC3000684MX  | 680nF                 |            |                           |              | 2                                   | 19     | 38   | 58    | 70     | >70  |
| *SFJNC2000105MX | 1.0μF                 |            | 200                       | 500          | 4                                   | 22     | 41   | 61    | >70    | >70  |
| *SFJNC1000155MX | 1.5μF                 |            | 100                       | 250          | 7                                   | 25     | 45   | 64    | >70    | >70  |
| *SFJNC1000225MX | 2.2μF                 |            | 100                       | 250          | 10                                  | 29     | 48   | 66    | >70    | >70  |
| SFJNC0500335MX  | 3.3μF                 |            | 50                        | 125          | 14                                  | 34     | 52   | 70    | >70    | >70  |

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

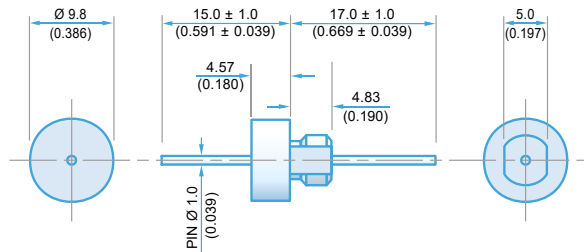
#### Ordering Information - SFJNC range

| SF           | J          | N      | C                        | 050                                                                                                                                                              | 0335                                                                                                                                                                                            | M               | X                                    | 1                                     |
|--------------|------------|--------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|---------------------------------------|
| Type         | Case style | Thread | Electrical configuration | Voltage (dc)                                                                                                                                                     | Capacitance in picofarads (pF)                                                                                                                                                                  | Tolerance       | Dielectric                           | Nuts & Washers                        |
| Syfer Filter | 9.8mm dia. | M6     | 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<br><b>1K0</b> = 1kV<br><b>2K0</b> = 2kV<br><b>3K0</b> = 3kV | 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% | <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 pin length / custom body dimensions or threads / alternative voltage rating / non-standard intermediate capacitance values / test requirements.

Please refer specific requests to the factory.



### M6 x 0.75 - 6g Thread 9.8mm Round Head

#### Electrical Details

|                              |                 |
|------------------------------|-----------------|
| Electrical Configuration     | L-C Filter      |
| Capacitance Measurement      | @ 1000hr Point  |
| Current Rating               | 15A             |
| Insulation Resistance (IR)   | 10GΩ or 1000ΩF  |
| Temperature Rating           | -55°C to +125°C |
| Ferrite Inductance (Typical) | 500nH           |



#### Mechanical Details

|                        |                                           |
|------------------------|-------------------------------------------|
| Head Diameter          | 9.8mm (0.386")                            |
| Nut A/F                | 8.0mm (0.315")                            |
| Washer Diameter        | 11.35mm (0.447")                          |
| Mounting Torque        | 0.9Nm (7.97lbf in) max.                   |
| Mounting Hole Diameter | 6.2mm (0.244") O.D.<br>5.3mm (0.208") A/F |
| Max. Panel Thickness   | 2.9mm (0.114")                            |
| Weight (Typical)       | 3.0g (0.11oz)                             |
| Finish                 | Silver plate on copper undercoat          |

| Product Code    | Capacitance<br>(±20%) | Dielectric | Rated<br>Voltage<br>(Vdc) | DWV<br>(Vdc) | Typical No-Load Insertion Loss (dB) |        |      |       |        |      |
|-----------------|-----------------------|------------|---------------------------|--------------|-------------------------------------|--------|------|-------|--------|------|
|                 |                       |            |                           |              | 0.01MHz                             | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| SFJNL3K00101MC  | 100pF                 | COG/NP0    | 3kV#                      | 3.6kV        |                                     |        |      |       | 7      | 24   |
| SFJNL3K00151MC  | 150pF                 |            |                           |              |                                     |        |      |       | 10     | 27   |
| SFJNL3K00221MC  | 220pF                 |            |                           |              |                                     |        |      |       | 12     | 30   |
| SFJNL2K00331MC  | 330pF                 |            |                           |              |                                     |        |      | 1     | 16     | 34   |
| SFJNL2K00471MC  | 470pF                 |            |                           |              |                                     |        |      | 2     | 19     | 38   |
| SFJNL2K00681MC  | 680pF                 |            |                           |              |                                     |        |      | 3     | 22     | 41   |
| SFJNL2K00102MC  | 1.0nF                 |            | 2kV#                      | 2.4kV        |                                     |        |      | 6     | 25     | 44   |
| SFJNL2K00152MX  | 1.5nF                 |            |                           |              |                                     |        |      | 9     | 29     | 48   |
| SFJNL2K00222MX  | 2.2nF                 |            |                           |              |                                     |        |      | 12    | 31     | 51   |
| *SFJNL2K00332MX | 3.3nF                 |            |                           |              |                                     |        |      | 15    | 35     | 54   |
| SFJNL2K00472MX  | 4.7nF                 |            |                           |              |                                     |        | 1    | 18    | 39     | 57   |
| *SFJNL2K00682MX | 6.8nF                 |            |                           |              |                                     |        | 2    | 21    | 41     | 60   |
| *SFJNL2K00103MX | 10nF                  |            |                           |              |                                     |        | 4    | 23    | 43     | 63   |
| SFJNL1K00153MX  | 15nF                  | X7R        | 1kV#                      | 1.2kV        |                                     |        | 7    | 27    | 46     | 66   |
| SFJNL1K00223MX  | 22nF                  |            |                           |              |                                     |        | 10   | 30    | 48     | 68   |
| *SFJNL1K00333MX | 33nF                  |            |                           |              |                                     |        | 13   | 34    | 50     | 70   |
| SFJNL1K00473MX  | 47nF                  |            |                           |              |                                     | 1      | 17   | 37    | 51     | >70  |
| *SFJNL1K00683MX | 68nF                  |            |                           |              |                                     | 2      | 20   | 40    | 55     | >70  |
| SFJNL5000104MX  | 100nF                 |            | 500#                      | 750          |                                     | 4      | 22   | 44    | 60     | >70  |
| *SFJNL5000154MX | 150nF                 |            |                           |              |                                     | 7      | 25   | 47    | 62     | >70  |
| SFJNL5000224MX  | 220nF                 |            |                           |              |                                     | 10     | 29   | 49    | 66     | >70  |
| *SFJNL5000334MX | 330nF                 |            |                           |              |                                     | 13     | 33   | 53    | 68     | >70  |
| SFJNL5000474MX  | 470nF                 |            |                           |              | 1                                   | 16     | 35   | 56    | 70     | >70  |
| SFJNL3000684MX  | 680nF                 |            |                           |              | 2                                   | 19     | 38   | 58    | >70    | >70  |
| *SFJNL2000105MX | 1.0µF                 |            | 200                       | 500          | 4                                   | 22     | 41   | 61    | >70    | >70  |
| *SFJNL1000155MX | 1.5µF                 |            |                           |              | 7                                   | 25     | 45   | 64    | >70    | >70  |
| *SFJNL1000225MX | 2.2µF                 |            |                           |              | 10                                  | 29     | 48   | 66    | >70    | >70  |
| SFJNL0500335MX  | 3.3µF                 |            |                           |              | 14                                  | 34     | 52   | 70    | >70    | >70  |

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

#### Ordering Information - SFJNL range

| SF           | J          | N      | L                        | 050                                                                                                                                                              | 0335                                                                                                                                                                                            | M               | X                                    | 1                                     |
|--------------|------------|--------|--------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|--------------------------------------|---------------------------------------|
| Type         | Case style | Thread | Electrical configuration | Voltage (dc)                                                                                                                                                     | Capacitance in picofarads (pF)                                                                                                                                                                  | Tolerance       | Dielectric                           | Nuts & Washers                        |
| Syfer Filter | 9.8mm dia. | M6     | L = L-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<br><b>1K0</b> = 1kV<br><b>2K0</b> = 2kV<br><b>3K0</b> = 3kV | 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% | <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 pin length / custom body dimensions or threads / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.

# Mouser Electronics

Authorized Distributor

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## Knowles:

|                                 |                                 |                                 |                                 |                                 |
|---------------------------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| <a href="#">SFJNC5000104MX1</a> | <a href="#">SFJNL3K00221MC1</a> | <a href="#">SFJNC2000684MX1</a> | <a href="#">SFJNC1000155MX1</a> | <a href="#">SFJNC5000334MX1</a> |
| <a href="#">SFJNC0500225MX1</a> | <a href="#">SFJNL2000684MX1</a> | <a href="#">SFJNL0500225MX1</a> | <a href="#">SFJNC0500335MX1</a> | <a href="#">SFJNC1000105MX1</a> |
| <a href="#">SFJNC2000105MX1</a> | <a href="#">SFJNC2K00102MC1</a> | <a href="#">SFJNC2K00103MX1</a> | <a href="#">SFJNC3K00221MC1</a> | <a href="#">SFJNC5000474MX1</a> |
| <a href="#">SFJNL1000155MX1</a> | <a href="#">SFJNL1000225MX1</a> | <a href="#">SFJNL1K00333MX1</a> | <a href="#">SFJNL1K00473MX1</a> | <a href="#">SFJNL2K00103MX1</a> |
| <a href="#">SFJNL2K00152MX1</a> | <a href="#">SFJNL2K00472MX1</a> | <a href="#">SFJNL5000104MX1</a> | <a href="#">SFJNL5000334MX1</a> | <a href="#">SFJNL5000474MX1</a> |
| <a href="#">SFJNL5000334MX0</a> | <a href="#">SFJNC3K00221MC0</a> | <a href="#">SFJNL3000474MX0</a> | <a href="#">SFJNL5000224MX1</a> | <a href="#">SFJNL5000223MX0</a> |
| <a href="#">SFJNC3K00101MC1</a> | <a href="#">SFJNC1K00473MX0</a> | <a href="#">SFJNC5000103MX0</a> | <a href="#">SFJNL2K00332MX1</a> | <a href="#">SFJNL1K00333MX0</a> |
| <a href="#">SFJNL1K00223MX0</a> | <a href="#">SFJNC1K00333MX1</a> | <a href="#">SFJNL5000473MX1</a> | <a href="#">SFJNC2K00331MC0</a> | <a href="#">SFJNL2K00152MX0</a> |
| <a href="#">SFJNC0500225MX0</a> | <a href="#">SFJNL5000224MX0</a> | <a href="#">SFJNC5000103MX1</a> | <a href="#">SFJNC2K00472MX0</a> | <a href="#">SFJNL0500225MX0</a> |
| <a href="#">SFJNL5000153MX0</a> | <a href="#">SFJNC5000224MX0</a> | <a href="#">SFJNL5000104MX0</a> | <a href="#">SFJNC2K00681MC0</a> | <a href="#">SFJNC5000683MX1</a> |
| <a href="#">SFJNL5000333MX0</a> | <a href="#">SFJNL3K00151MC0</a> | <a href="#">SFJNL2K00222MX0</a> | <a href="#">SFJNC5000333MX0</a> | <a href="#">SFJNC5000153MX0</a> |
| <a href="#">SFJNC2K00682MX1</a> | <a href="#">SFJNL3K00101MC1</a> | <a href="#">SFJNL1K00153MX1</a> | <a href="#">SFJNC2K00222MX1</a> | <a href="#">SFJNC5000154MX1</a> |
| <a href="#">SFJNC1K00473MX1</a> | <a href="#">SFJNL5000154MX0</a> | <a href="#">SFJNL2K00472MX0</a> | <a href="#">SFJNL1000105MX1</a> | <a href="#">SFJNC2K00152MX1</a> |
| <a href="#">SFJNC1K00223MX0</a> | <a href="#">SFJNC5000223MX0</a> | <a href="#">SFJNC2K00472MX1</a> | <a href="#">SFJNC1K00683MX1</a> | <a href="#">SFJNC5000224MX1</a> |
| <a href="#">SFJNC2K00682MX0</a> | <a href="#">SFJNC3K00151MC0</a> | <a href="#">SFJNL5000153MX1</a> | <a href="#">SFJNL2K00102MC0</a> | <a href="#">SFJNL2K00471MC1</a> |
| <a href="#">SFJNL2K00471MC0</a> | <a href="#">SFJNC2K00681MC1</a> | <a href="#">SFJNC2K00471MC0</a> | <a href="#">SFJNC5000473MX0</a> | <a href="#">SFJNC1000105MX0</a> |
| <a href="#">SFJNL3K00221MC0</a> | <a href="#">SFJNL2K00331MC0</a> | <a href="#">SFJNL5000223MX1</a> | <a href="#">SFJNC5000683MX0</a> | <a href="#">SFJNC1K00683MX0</a> |
| <a href="#">SFJNL3000474MX1</a> | <a href="#">SFJNC5000333MX1</a> | <a href="#">SFJNC5000334MX0</a> | <a href="#">SFJNL2K00682MX1</a> | <a href="#">SFJNC5000153MX1</a> |
| <a href="#">SFJNL1K00473MX0</a> | <a href="#">SFJNL2000684MX0</a> | <a href="#">SFJNL2K00681MC0</a> | <a href="#">SFJNL3K00151MC1</a> | <a href="#">SFJNC2K00102MC0</a> |
| <a href="#">SFJNL1K00683MX0</a> | <a href="#">SFJNL5000473MX0</a> | <a href="#">SFJNL3K00101MC0</a> | <a href="#">SFJNL2K00102MC1</a> | <a href="#">SFJNC3K00151MC1</a> |