



**THE DATASHEET OF  
SFCDL0500334MX1**





**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 Diameter          | 6.35mm (0.250")  |
| Nut A/F                | 7.92mm (0.312")  |
| Washer Diameter        | 9.40mm (0.370")  |
| Mounting Torque        | 0.6Nm (5.31lbf in) max. if using nut<br>0.3Nm (2.65lbf in) max. into tapped hole |
| Mounting Hole Diameter | 5.7mm ± 0.1 (0.224" ± 0.004")  |
| Max. Panel Thickness   | 3.9mm (0.154")   |
| Weight (Typical)       | 1.8g (0.06oz)  |
| 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 |     |
| *SFCDC5000100ZC | 10pF -20% / +80%       | COG/NP0    | 500#                | 750       | -                                   | -      | -    | -     | -      | 4    |     |
| SFCDC5000150ZC  | 15pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 7    |     |
| SFCDC5000220ZC  | 22pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 10   |     |
| SFCDC5000330ZC  | 33pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 12   |     |
| *SFCDC5000470ZC | 47pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | 1      | 15   |     |
| *SFCDC5000680MC | 68pF                   |            |                     |           | -                                   | -      | -    | -     | 2      | 18   |     |
| *SFCDC5000101MC | 100pF                  |            |                     |           | -                                   | -      | -    | -     | 4      | 22   |     |
| SFCDC5000151MC  | 150pF                  |            |                     |           | -                                   | -      | -    | -     | 7      | 25   |     |
| *SFCDC5000221MC | 220pF                  |            |                     |           | -                                   | -      | -    | -     | 10     | 29   |     |
| *SFCDC5000331MC | 330pF                  |            |                     |           | -                                   | -      | -    | -     | 19     | 33   |     |
| *SFCDC5000471MX | 470pF                  |            |                     |           | †X7R                                | -      | -    | -     | 1      | 16   | 35  |
| SFCDC5000681MX  | 680pF                  |            |                     |           |                                     | -      | -    | -     | 2      | 19   | 36  |
| *SFCDC5000102MX | 1.0nF                  | X7R        |                     |           | -                                   | -      | -    | 4     | 23     | 41   |     |
| SFCDC5000152MX  | 1.5nF                  |            |                     |           | -                                   | -      | -    | 7     | 26     | 45   |     |
| *SFCDC5000222MX | 2.2nF                  |            |                     |           | -                                   | -      | -    | 10    | 30     | 50   |     |
| SFCDC5000332MX  | 3.3nF                  |            |                     |           | -                                   | -      | -    | 13    | 33     | 52   |     |
| *SFCDC5000472MX | 4.7nF                  |            |                     |           | -                                   | -      | 1    | 16    | 36     | 55   |     |
| SFCDC5000682MX  | 6.8nF                  |            |                     |           | -                                   | -      | -    | 19    | 39     | 57   |     |
| *SFCDC5000103MX | 10nF                   |            |                     |           | -                                   | -      | 4    | 22    | 41     | 60   |     |
| *SFCDC5000153MX | 15nF                   |            |                     |           | -                                   | -      | 7    | 25    | 44     | 62   |     |
| *SFCDC5000223MX | 22nF                   |            |                     |           | -                                   | -      | 10   | 29    | 46     | 65   |     |
| SFCDC5000333MX  | 33nF                   |            |                     |           | -                                   | -      | 13   | 33    | 48     | 68   |     |
| *SFCDC5000473MX | 47nF                   |            |                     |           | -                                   | 1      | 16   | 35    | 50     | 70   |     |
| SFCDC5000683MX  | 68nF                   |            |                     |           | -                                   | 2      | 19   | 39    | 54     | >70  |     |
| SFCDC5000104MX  | 100nF                  |            | -                   | 4         | 22                                  | 41     | 57   | >70   |        |      |     |
| SFCDC5000154MX  | 150nF                  |            | -                   | 7         | 25                                  | 45     | 60   | >70   |        |      |     |
| *SFCDC2000224MX | 220nF                  |            | -                   | 200       | 500                                 | -      | 10   | 29    | 49     | 62   | >70 |
| SFCDC1000334MX  | 330nF                  |            | -                   | 100       | 250                                 | -      | 13   | 33    | 52     | 66   | >70 |
| *SFCDC1000474MX | 470nF                  |            | 1                   |           |                                     | 16     | 35   | 55    | 68     | >70  |     |
| SFCDC0500684MX  | 680nF                  |            | -                   | 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. † Also available in COG/NP0.

**Ordering Information - SFCDC range**

| SF           | C               | D          | C                        | 500   | 0102   | M                                     | X                                    | 0                                     |
|--------------|-----------------|------------|--------------------------|---|--|---------------------------------------|--------------------------------------|---------------------------------------|
| Type         | Case style      | Thread     | Electrical configuration | Voltage (dc)  | Capacitance in picofarads (pF)   | Tolerance                             | Dielectric                           | Nuts & Washers                        |
| Syfer Filter | 6.35mm Hex Head | 12-32 UNEF | 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. 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.



| 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) | 500nH           |

| Mechanical Details     |  |
|------------------------|--|
| Head Diameter          | 6.35mm (0.250")  |
| Nut A/F                | 7.92mm (0.312")  |
| Washer Diameter        | 9.40mm (0.370")  |
| Mounting Torque        | 0.6Nm (5.31lbf in) max. if using nut<br>0.3Nm (2.65lbf in) max. into tapped hole |
| Mounting Hole Diameter | 5.7mm ± 0.1 (0.224" ± 0.004")  |
| Max. Panel Thickness   | 3.9mm (0.154")   |
| Weight (Typical)       | 1.8g (0.06oz)  |
| 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 |
| *SFCDL5000100ZC | 10pF -20% / +80%       | COG/NPO    | 500#                | 750       | -                                   | -      | -    | -     | -      | 6    |
| SFCDL5000150ZC  | 15pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 9    |
| SFCDL5000220ZC  | 22pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | -      | 12   |
| SFCDL5000330ZC  | 33pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | 1      | 15   |
| *SFCDL5000470ZC | 47pF -20% / +80%       |            |                     |           | -                                   | -      | -    | -     | 2      | 19   |
| *SFCDL5000680MC | 68pF                   |            |                     |           | -                                   | -      | -    | -     | 4      | 20   |
| *SFCDL5000101MC | 100pF                  |            |                     |           | -                                   | -      | -    | -     | 7      | 24   |
| SFCDL5000151MC  | 150pF                  |            |                     |           | -                                   | -      | -    | -     | 10     | 27   |
| *SFCDL5000221MC | 220pF                  |            |                     |           | -                                   | -      | -    | -     | 12     | 30   |
| *SFCDL5000331MC | 330pF                  |            |                     |           | -                                   | -      | -    | 1     | 16     | 34   |
| *SFCDL5000471MX | 470pF                  | †X7R       | 500#                | 750       | -                                   | -      | -    | 2     | 19     | 38   |
| SFCDL5000681MX  | 680pF                  |            |                     |           | -                                   | -      | -    | 3     | 22     | 41   |
| *SFCDL5000102MX | 1.0nF                  | X7R        | 500#                | 750       | -                                   | -      | -    | 6     | 25     | 44   |
| SFCDL5000152MX  | 1.5nF                  |            |                     |           | -                                   | -      | -    | 9     | 29     | 48   |
| *SFCDL5000222MX | 2.2nF                  |            |                     |           | -                                   | -      | -    | 12    | 31     | 51   |
| SFCDL5000332MX  | 3.3nF                  |            |                     |           | -                                   | -      | -    | 15    | 35     | 54   |
| *SFCDL5000472MX | 4.7nF                  |            |                     |           | -                                   | -      | 1    | 18    | 39     | 57   |
| SFCDL5000682MX  | 6.8nF                  |            |                     |           | -                                   | -      | 2    | 21    | 41     | 60   |
| *SFCDL5000103MX | 10nF                   |            |                     |           | -                                   | -      | 4    | 23    | 43     | 63   |
| *SFCDL5000153MX | 15nF                   |            |                     |           | -                                   | -      | 7    | 27    | 46     | 66   |
| *SFCDL5000223MX | 22nF                   |            |                     |           | -                                   | -      | 10   | 30    | 48     | 68   |
| SFCDL5000333MX  | 33nF                   |            |                     |           | -                                   | -      | 13   | 34    | 50     | 70   |
| *SFCDL5000473MX | 47nF                   |            |                     |           | -                                   | 1      | 17   | 37    | 51     | >70  |
| SFCDL5000683MX  | 68nF                   |            |                     |           | -                                   | 2      | 20   | 40    | 55     | >70  |
| SFCDL5000104MX  | 100nF                  |            |                     |           | -                                   | 4      | 22   | 44    | 60     | >70  |
| SFCDL5000154MX  | 150nF                  |            |                     |           | -                                   | 7      | 25   | 47    | 62     | >70  |
| *SFCDL2000224MX | 220nF                  |            |                     |           | -                                   | 10     | 29   | 49    | 66     | >70  |
| SFCDL1000334MX  | 330nF                  |            |                     |           | -                                   | 13     | 33   | 52    | 68     | >70  |
| *SFCDL1000474MX | 470nF                  |            |                     |           | -                                   | 16     | 35   | 55    | >70    | >70  |
| SFCDL0500684MX  | 680nF                  |            |                     |           | -                                   | 19     | 38   | 58    | >70    | >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 - SFCDL range**

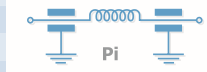
| SF           | C               | D          | L                        | 500   | 0101   | M                                     | C                                    | 0                                     |
|--------------|-----------------|------------|--------------------------|---|--|---------------------------------------|--------------------------------------|---------------------------------------|
| Type         | Case style      | Thread     | Electrical configuration | Voltage (dc)  | Capacitance in picofarads (pF)   | Tolerance                             | Dielectric                           | Nuts & Washers                        |
| Syfer Filter | 6.35mm Hex Head | 12-32 UNEF | 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. 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     | Pi Filter       |
| Capacitance Measurement      | @ 1000hr Point  |
| Current Rating               | 10A             |
| Insulation Resistance (IR)   | 10GΩ or 1000ΩF  |
| Temperature Rating           | -55°C to +125°C |
| Ferrite Inductance (Typical) | 250nH           |



**Mechanical Details**

|                        |  |
|------------------------|--|
| Head Diameter          | 6.35mm (0.250")  |
| Nut A/F                | 7.92mm (0.312")  |
| Washer Diameter        | 9.40mm (0.370")  |
| Mounting Torque        | 0.6Nm (5.31lbf in) max. if using nut<br>0.3Nm (2.65lbf in) max. into tapped hole |
| Mounting Hole Diameter | 5.7mm ± 0.1 (0.224" ± 0.004")  |
| Max. Panel Thickness   | 3.9mm (0.154")   |
| Weight (Typical)       | 1.8g (0.06oz)  |
| 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 |    |     |
| *SFCDP5000200ZC | 20pF -20% / +80%       | COG/NP0    | 500#                | 750       |                                     |        |      |       | 1      | 11   |    |     |
| SFCDP5000300ZC  | 30pF -20% / +80%       |            |                     |           |                                     |        |      |       |        |      | 2  | 15  |
| SFCDP5000440ZC  | 44pF -20% / +80%       |            |                     |           |                                     |        |      |       |        |      | 3  | 19  |
| SFCDP5000660ZC  | 66pF -20% / +80%       |            |                     |           |                                     |        |      |       |        |      | 4  | 23  |
| *SFCDP5000940ZC | 94pF -20% / +80%       |            |                     |           |                                     |        |      |       |        |      | 6  | 29  |
| *SFCDP500136PMC | 136pF                  |            |                     |           |                                     |        |      |       |        |      | 8  | 35  |
| *SFCDP5000201MC | 200pF                  |            |                     |           |                                     |        |      |       |        |      | 11 | 41  |
| SFCDP5000301MC  | 300pF                  |            |                     |           |                                     |        |      |       |        | 1    | 15 | 50  |
| *SFCDP5000441MC | 440pF                  |            |                     |           |                                     |        |      |       |        | 2    | 20 | 57  |
| *SFCDP5000661MC | 660pF                  |            |                     |           |                                     |        |      |       |        | 3    | 25 | 65  |
| *SFCDP5000941MX | 940pF                  |            |                     |           | +X7R                                |        |      |       |        | 5    | 31 | 68  |
| SFCDP5001N36MX  | 1.36nF                 |            |                     |           | +X7R                                |        |      |       |        | 7    | 37 | >70 |
| *SFCDP5000202MX | 2nF                    |            |                     |           | X7R                                 | 200    | 500  |       |        |      | 10 | 44  |
| SFCDP5000302MX  | 3nF                    |            |                     |           |                                     |        |      |       |        | 13   | 51 | >70 |
| *SFCDP5000442MX | 4.4nF                  |            |                     |           |                                     |        |      |       |        | 1    | 17 | 59  |
| SFCDP5000662MX  | 6.6nF                  |            |                     |           |                                     |        |      |       |        | 2    | 21 | 64  |
| *SFCDP5000942MX | 9.4nF                  |            |                     |           |                                     |        |      |       |        | 4    | 27 | 68  |
| SFCDP50013N6MX  | 13.6nF                 |            |                     |           |                                     |        |      |       |        | 6    | 34 | >70 |
| *SFCDP5000203MX | 20nF                   |            |                     |           |                                     |        |      |       |        | 9    | 40 | >70 |
| *SFCDP5000303MX | 30nF                   |            |                     |           |                                     |        |      |       |        | 12   | 48 | >70 |
| *SFCDP5000443MX | 44nF                   |            |                     |           |                                     |        |      |       |        | 1    | 14 | 54  |
| SFCDP5000663MX  | 66nF                   |            |                     |           |                                     |        |      |       |        | 2    | 17 | 63  |
| *SFCDP2000943MX | 94nF                   |            |                     |           |                                     |        |      |       |        | 4    | 18 | 68  |
| SFCDP200136NMX  | 136nF                  |            |                     |           |                                     |        |      |       |        | 8    | 25 | >70 |
| *SFCDP1000204MX | 200nF                  |            | 100                 | 250       |                                     |        |      |       |        | 10   | 27 | >70 |
| *SFCDP0500304MX | 300nF                  |            | 50                  | 125       |                                     |        |      |       |        | 13   | 30 | >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 - SFCDP range**

| SF           | C               | D          | P                        | 200   | 0943  | M                                     | X                                    | O                                     |
|--------------|-----------------|------------|--------------------------|---|---|---------------------------------------|--------------------------------------|---------------------------------------|
| Type         | Case style      | Thread     | Electrical configuration | Voltage (dc)  | Capacitance in picofarads (pF)  | Tolerance                             | Dielectric                           | Nuts & Washers                        |
| Syfer Filter | 6.35mm Hex Head | 12-32 UNEF | Pi = Pi 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>0201</b> = 200pF<br><b>0943</b> = 9400pF | <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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