



**THE DATASHEET OF
SFCDP5000302MX1**





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 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.

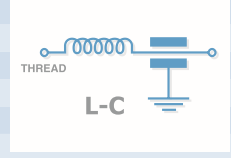
Ordering Information - SFCDC range

| 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 | 050 = 50V 100 = 100V 200 = 200V 500 = 500V | First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following Example: 0101 = 100pF 0332 = 3300pF | M = ±20% Z = -20+80% | C = COG/NP0 X = X7R | 0 = Without 1 = 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 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

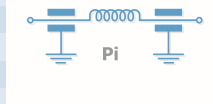
| SF | C | D | L | 500 | 0101 | M | C | 0 |
|--------------|-----------------|------------|--------------------------|---|--|---------------------------------------|--------------------------------------|---------------------------------------|
| Type | Case style | Thread | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Tolerance | Dielectric | Nuts & Washers |
| Syfer Filter | 6.35mm Hex Head | 12-32 UNEF | L = L-C Filter | 050 = 50V 100 = 100V 200 = 200V 500 = 500V | First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following Example: 0101 = 100pF 0332 = 3300pF | M = ±20% Z = -20+80% | C = COG/NPO X = X7R | 0 = Without 1 = 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 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 | 050 = 50V 100 = 100V 200 = 200V 500 = 500V | First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following Example: 0201 = 200pF 0943 = 9400pF | M = ±20% Z = -20+80% | C = COG/NP0 X = X7R | 0 = Without 1 = 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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