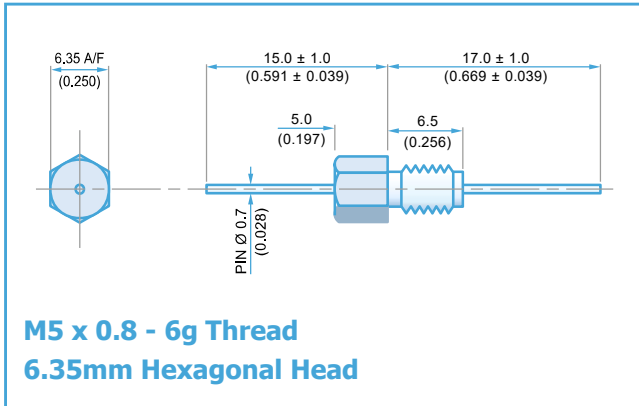
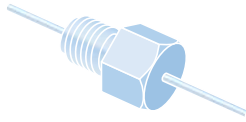


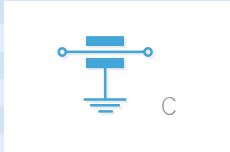


**THE DATASHEET OF
SFCML2000154MX1**





| 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 | 6.0mm (0.236") |
| Washer Diameter | 9.1mm (0.358") |
| Mounting Torque | 0.6Nm (5.31bf in) max. if using nut 0.3Nm (2.65bf in) max. into tapped hole |
| Mounting Hole Diameter | 5.2mm ± 0.1 (0.205" ± 0.004") |
| Max. Panel Thickness | 3.4mm (0.134") |
| 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 | | | | | |
| *SFCMC5000100ZC | 10pF -20% / +80% | COG/NPO | 500# | 750 | | | | | | 4 | | | | | |
| SFCMC5000150ZC | 15pF -20% / +80% | | | | | | | | | | 7 | | | | |
| SFCMC5000220ZC | 22pF -20% / +80% | | | | | | | | | | 10 | | | | |
| SFCMC5000330ZC | 33pF -20% / +80% | | | | | | | | | | 12 | | | | |
| *SFCMC5000470ZC | 47pF -20% / +80% | | | | | | | | | | 1 | 15 | | | |
| *SFCMC5000680MC | 68pF | | | | | | | | | | 2 | 18 | | | |
| *SFCMC5000101MC | 100pF | | | | | | | | | | 4 | 22 | | | |
| SFCMC5000151MC | 150pF | | | | | | | | | | 7 | 25 | | | |
| *SFCMC5000221MC | 220pF | | | | | | | | | | 10 | 29 | | | |
| *SFCMC5000331MC | 330pF | | | | | | | | | | 13 | 33 | | | |
| *SFCMC5000471MX | 470pF | †X7R | | | | | 1 | 16 | 35 | | | | | | |
| SFCMC5000681MX | 680pF | | | | | | 2 | 19 | 36 | | | | | | |
| *SFCMC5000102MX | 1.0nF | X7R | 500# | 750 | | | | | 4 | 23 | 41 | | | | |
| SFCMC5000152MX | 1.5nF | | | | | | | | | | 7 | 26 | 45 | | |
| *SFCMC5000222MX | 2.2nF | | | | | | | | | | 10 | 30 | 50 | | |
| SFCMC5000332MX | 3.3nF | | | | | | | | | | 13 | 33 | 52 | | |
| *SFCMC5000472MX | 4.7nF | | | | | | | | | 1 | 16 | 36 | 55 | | |
| SFCMC5000682MX | 6.8nF | | | | | | | | | 2 | 19 | 39 | 57 | | |
| *SFCMC5000103MX | 10nF | | | | | | | | | 4 | 22 | 41 | 60 | | |
| *SFCMC5000153MX | 15nF | | | | | | | | | 7 | 25 | 44 | 62 | | |
| *SFCMC5000223MX | 22nF | | | | | | | | | 10 | 29 | 46 | 65 | | |
| SFCMC5000333MX | 33nF | | | | | | | | | 13 | 33 | 48 | 68 | | |
| *SFCMC5000473MX | 47nF | | | | | | | | | 1 | 16 | 35 | 50 | 70 | |
| SFCMC5000683MX | 68nF | | | | | | | | | 2 | 19 | 39 | 54 | >70 | |
| SFCMC5000104MX | 100nF | | | | | | | | | 4 | 22 | 41 | 57 | >70 | |
| SFCMC5000154MX | 150nF | | | | | | | | | 7 | 25 | 45 | 60 | >70 | |
| *SFCMC2000224MX | 220nF | | | | | 200 | 500 | | | 10 | 29 | 49 | 62 | >70 | |
| SFCMC1000334MX | 330nF | | | | | 100 | 250 | | | | 13 | 33 | 52 | 66 | >70 |
| *SFCMC1000474MX | 470nF | | | | | | | | | 1 | 16 | 35 | 55 | 68 | >70 |
| SFCMC0500684MX | 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/NPO.

Ordering Information - SFCMC range

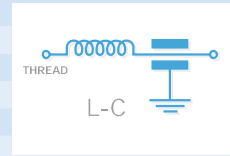
| SF | C | M | C | 500 | 0101 | M | C | 0 |
|--------------|------------|--------|--------------------------|---|--|---------------------------------------|--------------------------------------|---------------------------------------|
| Type | Case style | Thread | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Tolerance | Dielectric | Nuts & Washers |
| Syfer Filter | 6.35mm A/F | M5 | 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/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 | 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 | 6.0mm (0.236") |
| Washer Diameter | 9.1mm (0.358") |
| Mounting Torque | 0.6Nm (5.31lbf in) max. if using nut 0.3Nm (2.65lbf in) max. into tapped hole |
| Mounting Hole Diameter | 5.2mm ± 0.1 (0.205" ± 0.004") |
| Max. Panel Thickness | 3.4mm (0.134") |
| 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 | |
| *SFCML5000100ZC | 10pF -20% / +80% | COG/NP0 | 500# | 750 | - | - | - | - | - | 6 | |
| SFCML5000150ZC | 15pF -20% / +80% | | | | - | - | - | - | - | 9 | |
| SFCML5000220ZC | 22pF -20% / +80% | | | | - | - | - | - | - | 12 | |
| SFCML5000330ZC | 33pF -20% / +80% | | | | - | - | - | - | 1 | 15 | |
| *SFCML5000470ZC | 47pF -20% / +80% | | | | - | - | - | - | 2 | 19 | |
| *SFCML5000680MC | 68pF | | | | - | - | - | - | 4 | 20 | |
| *SFCML5000101MC | 100pF | | | | - | - | - | - | 7 | 24 | |
| SFCML5000151MC | 150pF | | | | - | - | - | - | 10 | 27 | |
| *SFCML5000221MC | 220pF | | | | - | - | - | - | 12 | 30 | |
| *SFCML5000331MC | 330pF | | | | - | - | - | 1 | 16 | 34 | |
| *SFCML5000471MX | 470pF | †X7R | | | - | - | - | 2 | 19 | 38 | |
| SFCML5000681MX | 680pF | | | | - | - | - | 3 | 22 | 41 | |
| *SFCML5000102MX | 1.0nF | X7R | | | - | - | - | 6 | 25 | 44 | |
| SFCML5000152MX | 1.5nF | | | | - | - | - | 9 | 29 | 48 | |
| *SFCML5000222MX | 2.2nF | | | | - | - | - | 12 | 31 | 51 | |
| SFCML5000332MX | 3.3nF | | | | - | - | - | 15 | 35 | 54 | |
| *SFCML5000472MX | 4.7nF | | | | - | - | 1 | 18 | 39 | 57 | |
| SFCML5000682MX | 6.8nF | | | | - | - | 2 | 21 | 41 | 60 | |
| *SFCML5000103MX | 10nF | | | | - | - | 4 | 23 | 43 | 63 | |
| *SFCML5000153MX | 15nF | | | | - | - | 7 | 27 | 46 | 66 | |
| *SFCML5000223MX | 22nF | | - | - | 10 | 30 | 48 | 68 | | | |
| SFCML5000333MX | 33nF | | - | - | 13 | 34 | 50 | 70 | | | |
| *SFCML5000473MX | 47nF | | - | - | 17 | 37 | 51 | >70 | | | |
| SFCML5000683MX | 68nF | | - | - | 20 | 40 | 55 | >70 | | | |
| *SFCML5000104MX | 100nF | | - | - | 22 | 44 | 60 | >70 | | | |
| SFCML5000154MX | 150nF | | - | - | 25 | 47 | 62 | >70 | | | |
| *SFCML2000224MX | 220nF | | - | 200 | 500 | - | 10 | 29 | 49 | 66 | >70 |
| SFCML1000334MX | 330nF | | - | 100 | 250 | - | 13 | 33 | 53 | 68 | >70 |
| *SFCML1000474MX | 470nF | | 1 | | | 16 | 35 | 56 | >70 | >70 | |
| SFCML0500684MX | 680nF | | 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 - SFCML range

| SF | C | M | 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 A/F | M5 | L = L-C Filter | 050 = 50Vdc 100 = 100Vdc 200 = 200Vdc 500 = 500Vdc | 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.

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