



**THE DATASHEET OF
SFAJL1000223MX1**





| 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) | 4.0mm (0.157") |
| Nut A/F | 4.0mm (0.187") |
| Washer diameter | 6.9mm (0.272") |
| Mounting Torque | 0.25Nm (2.21lbf in) max. if using nut 0.15Nm (1.32lbf in) max. into tapped hole |
| Mounting Hole Diameter | 3.15mm ±0.1 (0.124" ±0.004") |
| Max. Panel Thickness | 3.2mm (0.126") |
| Weight (Typical) | 0.5g (0.017oz) |
| 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 | | | |
| *SFAJ5000100ZC | 10pF -20% / +80% | COG/NPO | 500# | 750 | - | - | - | - | - | 4 | | | |
| SFAJ5000150ZC | 15pF -20% / +80% | | | | - | - | - | - | - | 7 | | | |
| SFAJ5000220ZC | 22pF -20% / +80% | | | | - | - | - | - | - | 10 | | | |
| SFAJ5000330ZC | 33pF -20% / +80% | | | | - | - | - | - | - | 12 | | | |
| *SFAJ5000470ZC | 47pF -20% / +80% | | | | - | - | - | - | 1 | 15 | | | |
| *SFAJ5000680MC | 68pF | | | | - | - | - | - | 2 | 18 | | | |
| *SFAJ5000101MC | 100pF | | | | - | - | - | - | 4 | 22 | | | |
| SFAJ5000151MC | 150pF | | | | - | - | - | - | 7 | 25 | | | |
| *SFAJ5000221MC | 220pF | | | | - | - | - | - | 10 | 29 | | | |
| *SFAJ5000331MC | 330pF | | | | - | - | - | - | 13 | 33 | | | |
| *SFAJ5000471MX | 470pF | | | | †X7R | 500# | 750 | - | - | - | 1 | 16 | 35 |
| SFAJ5000681MX | 680pF | | | | | | | - | - | - | 2 | 19 | 36 |
| *SFAJ5000102MX | 1.0nF | | | | X7R | 200 | 500 | - | - | - | 4 | 23 | 41 |
| SFAJ5000152MX | 1.5nF | - | - | - | | | | 7 | 26 | 45 | | | |
| *SFAJ5000222MX | 2.2nF | - | - | - | | | | 10 | 30 | 50 | | | |
| SFAJ5000332MX | 3.3nF | - | - | - | | | | 13 | 33 | 52 | | | |
| *SFAJ5000472MX | 4.7nF | - | - | 1 | | | | 16 | 36 | 55 | | | |
| *SFAJ5000682MX | 6.8nF | - | - | 2 | | | | 19 | 39 | 57 | | | |
| *SFAJ5000103MX | 10nF | - | - | 4 | | | | 22 | 41 | 60 | | | |
| *SFAJ5000153MX | 15nF | - | - | 7 | | | | 25 | 44 | 62 | | | |
| *SFAJ5000223MX | 22nF | - | - | 10 | | | | 29 | 46 | 65 | | | |
| SFAJ5000333MX | 33nF | - | - | 13 | | | | 33 | 48 | 68 | | | |
| *SFAJ2000473MX | 47nF | - | 1 | 16 | | | | 35 | 50 | 70 | | | |
| SFAJ2000683MX | 68nF | - | 2 | 19 | | | | 39 | 54 | >70 | | | |
| *SFAJ1000104MX | 100nF | - | 4 | 22 | | | | 41 | 57 | >70 | | | |
| *SFAJ0500154MX | 150nF | - | 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 - SFAJC range

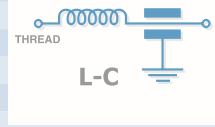
| SF | A | J | C | 050 | 0154 | M | X | 0 |
|--------------|----------------|--------|--------------------------|---|---|-------------------------|------------------------|-------------------------|
| Type | Case style | Thread | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Tolerance | Dielectric | Hardware |
| Syfer Filter | 4.0mm Hex Head | M3 | 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) | 50nH |



Mechanical Details

| | |
|------------------------|--|
| Head (A/F) | 4.0mm (0.157") |
| Nut A/F | 4.0mm (0.157") |
| Washer diameter | 6.9mm (0.272") |
| Mounting Torque | 0.25Nm (2.21bf in) max. if using nut 0.15Nm (1.32bf in) max. into tapped hole |
| Mounting Hole Diameter | 3.15mm ±0.1 (0.124" ±0.004") |
| Max. Panel Thickness | 3.2mm (0.126") |
| Weight (Typical) | 0.5g (0.017oz) |
| 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 |
| *SFAJL5000100ZC | 10pF -20% / +80% | COG/NP0 | 500# | 750 | - | - | - | - | - | 6 |
| SFAJL5000150ZC | 15pF -20% / +80% | | | | - | - | - | - | - | 9 |
| SFAJL5000220ZC | 22pF -20% / +80% | | | | - | - | - | - | - | 12 |
| SFAJL5000330ZC | 33pF -20% / +80% | | | | - | - | - | - | 1 | 15 |
| *SFAJL5000470ZC | 47pF -20% / +80% | | | | - | - | - | - | 2 | 19 |
| *SFAJL5000680MC | 68pF | | | | - | - | - | - | 4 | 20 |
| *SFAJL5000101MC | 100pF | | | | - | - | - | - | 7 | 24 |
| SFAJL5000151MC | 150pF | | | | - | - | - | - | 10 | 27 |
| *SFAJL5000221MC | 220pF | | | | - | - | - | - | 12 | 30 |
| *SFAJL5000331MC | 330pF | | | | - | - | - | 1 | 16 | 34 |
| *SFAJL5000471MX | 470pF | †X7R | 500# | 750 | - | - | - | 2 | 19 | 38 |
| SFAJL5000681MX | 680pF | | | | - | - | - | 3 | 22 | 41 |
| *SFAJL5000102MX | 1.0nF | X7R | 200 | 500 | - | - | - | 6 | 25 | 44 |
| SFAJL5000152MX | 1.5nF | | | | - | - | - | 9 | 29 | 48 |
| *SFAJL5000222MX | 2.2nF | | | | - | - | - | 12 | 31 | 51 |
| SFAJL5000332MX | 3.3nF | | | | - | - | - | 15 | 35 | 54 |
| *SFAJL5000472MX | 4.7nF | | | | - | - | 1 | 18 | 39 | 57 |
| SFAJL5000682MX | 6.8nF | | | | - | - | 2 | 21 | 41 | 60 |
| *SFAJL5000103MX | 10nF | | | | - | - | 4 | 23 | 43 | 63 |
| *SFAJL5000153MX | 15nF | | | | - | - | 7 | 27 | 46 | 66 |
| *SFAJL5000223MX | 22nF | | | | - | - | 10 | 30 | 48 | 68 |
| SFAJL5000333MX | 33nF | | | | - | - | 13 | 34 | 50 | 70 |
| *SFAJL2000473MX | 47nF | | 100 | 250 | - | 4 | 22 | 44 | 60 | >70 |
| SFAJL2000683MX | 68nF | | 50 | 125 | - | 7 | 25 | 47 | 62 | >70 |
| *SFAJL1000104MX | 100nF | | | | | | | | | |
| *SFAJL0500154MX | 150nF | | | | | | | | | |

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

Ordering Information - SFAJL range

| SF | A | J | L | 200 | 0683 | M | X | 1 |
|--------------|----------------|--------|--------------------------|---|---|---------------------------------------|--------------------------------------|---------------------------------------|
| Type | Case style | Thread | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Tolerance | Dielectric | Hardware |
| Syfer Filter | 4.0mm Hex Head | M3 | 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/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.

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

 [View SFAJL1000223MX1 on WIN SOURCE](#)

 [Knowles Syfer Information](#)

Optimize Your Supply Chain with WIN SOURCE Solutions

-  Global Sourcing Solution
-  Obsolete Management
-  Cost Control Management
-  Shortage Management
-  Alternative Solution
-  Excess Inventory Management