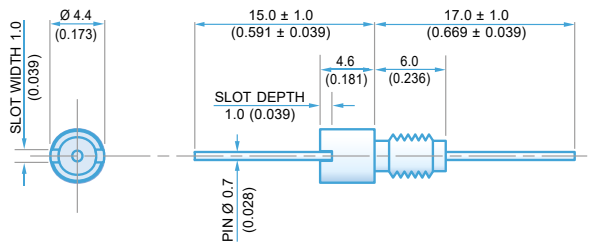
# THE DATASHEET OF

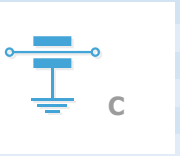
# SFKBC0500473MX0




**6-32 UNC Class 2A Thread**
**4.4mm Round Head**

## Electrical Details

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




## Mechanical Details

| | |
|---|---|
| Head Diameter | 4.4mm *(0.173")* |
| Nut A/F | N/a. For use in tapped hole |
| Washer Diameter | N/a |
| Mounting Torque | 0.15Nm *(1.32lbf in)* max. |
| Mounting Hole | 6-32 UNC Class 2B |
| Max. Panel Thickness | N/a |
| Weight (Typical) | 0.8g *(0.03oz)* |
| Finish | Silver plate on copper undercoat |

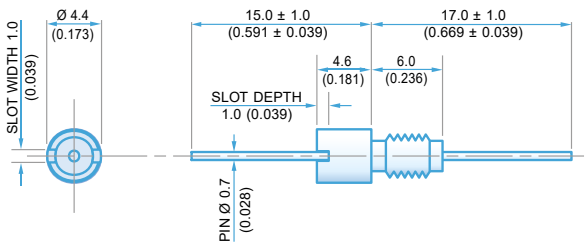
| Product Code | Capacitance (±20%) UOS | Dielectric | Rated Voltage (Vdc) | DWV (Vdc) | Typical No-Load Insertion Loss (dB) | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | 0.01MHz | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| *SFKBC5000100ZC | 10pF -20% / +80% | C0G/NP0 | 500# | 750 | | | | | | 4 |
| SFKBC5000150ZC | 15pF -20% / +80% | | 500# | | | | | | | 7 |
| SFKBC5000220ZC | 22pF -20% / +80% | | 500# | | | | | | | 10 |
| SFKBC5000330ZC | 33pF -20% / +80% | | 500# | | | | | | | 12 |
| *SFKBC5000470ZC | 47pF -20% / +80% | | 500# | | | | | | 1 | 15 |
| *SFKBC5000680MC | 68pF | | 500# | | | | | | 2 | 18 |
| *SFKBC5000101MC | 100pF | | 500# | | | | | | 4 | 22 |
| SFKBC5000151MC | 150pF | | 500# | | | | | | 7 | 25 |
| *SFKBC5000221MC | 220pF | | 500# | | | | | | 10 | 29 |
| *SFKBC5000331MC | 330pF | | 500# | | | | | | 13 | 33 |
| *SFKBC5000471MX | 470pF | †X7R | 500# | | | | | 1 | 16 | 35 |
| SFKBC5000681MX | 680pF | | 500# | | | | | 2 | 19 | 36 |
| *SFKBC5000102MX | 1.0nF | X7R | 500# | | | | | 4 | 23 | 41 |
| SFKBC5000152MX | 1.5nF | | 500# | | | | | 7 | 26 | 45 |
| *SFKBC5000222MX | 2.2nF | | 500# | | | | | 10 | 30 | 50 |
| SFKBC5000332MX | 3.3nF | | 500# | | | | | 13 | 33 | 52 |
| *SFKBC5000472MX | 4.7nF | | 500# | | | | 1 | 16 | 36 | 55 |
| SFKBC5000682MX | 6.8nF | | 500# | | | | 2 | 19 | 39 | 57 |
| *SFKBC5000103MX | 10nF | | 500# | | | | 4 | 22 | 41 | 60 |
| *SFKBC5000153MX | 15nF | | 500# | | | | 7 | 25 | 44 | 62 |
| *SFKBC5000223MX | 22nF | | 500# | | | | 10 | 29 | 46 | 65 |
| SFKBC5000333MX | 33nF | | 500# | | | | 13 | 33 | 48 | 68 |
| *SFKBC2000473MX | 47nF | | 200 | 500 | | 1 | 16 | 35 | 50 | 70 |
| SFKBC2000683MX | 68.0nF | | 200 | | | 2 | 19 | 39 | 54 | >70 |
| *SFKBC1000104MX | 100nF | | 100 | 250 | | 4 | 22 | 41 | 57 | >70 |
| *SFKBC0500154MX | 150nF | | 50 | 125 | | 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 C0G/NP0.

## Ordering Information - SFKBC range

| SF | K | B | C | 500 | 0101 | M | C | 0 |
|---|---|---|---|---|---|---|---|---|
| Type | Case style | Thread | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Tolerance | Dielectric | Nuts & Washers |
| Syfer Filter | 4.4mm O.D. | 6-32 UNC | **C** = C Filter | **050** = 50V<br>**100** = 100V<br>**200** = 200V<br>**500** = 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: **0101** = 100pF<br>**0332** = 3300pF | **M** = ±20%<br>**Z** = -20+80% | **C** = C0G/NP0<br>**X** = X7R | **0** = Without |

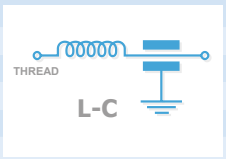
Note: Installation tool available on request
Note: The addition of a 4-digit numerical suffix code can be used to denote changes to the standard part.
Options include for example: change of finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.




**6-32 UNC Class 2A Thread**
**4.4mm Round Head**

## Electrical Details

| | |
|---|---|
| Electrical Configuration | L-C Filter |
| Capacitance Measurement | @ 1000hr Point |
| Current Rating | 10A |
| Insulation Resistance (IR) | 10GΩ or 1000ΩF |
| Temperature Rating | -55ºC to +125ºC |
| Ferrite Inductance (Typical) | 50nH |




## Mechanical Details

| | |
|---|---|
| Head Diameter | 4.4mm *(0.173")* |
| Nut A/F | N/a. For use in tapped hole |
| Washer Diameter | N/a |
| Mounting Torque | 0.15Nm *(1.32lbf in)* max. |
| Mounting Hole | 6-32 UNC Class 2B |
| Max. Panel Thickness | N/a |
| Weight (Typical) | 0.8g *(0.03oz)* |
| 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 |
| * SFKBL5000100ZC | 10pF -20% / +80% | C0G/NP0 | 500# | 750 | | | | | | 6 |
| SFKBL5000150ZC | 15pF -20% / +80% | | 500# | | | | | | | 9 |
| SFKBL5000220ZC | 22pF -20% / +80% | | 500# | | | | | | | 12 |
| SFKBL5000330ZC | 33pF -20% / +80% | | 500# | | | | | | 1 | 15 |
| * SFKBL5000470ZC | 47pF -20% / +80% | | 500# | | | | | | 2 | 19 |
| * SFKBL5000680MC | 68pF | | 500# | | | | | | 4 | 20 |
| * SFKBL5000101MC | 100pF | | 500# | | | | | | 7 | 24 |
| SFKBL5000151MC | 150pF | | 500# | | | | | | 10 | 27 |
| * SFKBL5000221MC | 220pF | | 500# | | | | | | 12 | 30 |
| * SFKBL5000331MC | 330pF | | 500# | | | | | 1 | 16 | 34 |
| * SFKBL5000471MX | 470pF | †X7R | 500# | | | | | 2 | 19 | 38 |
| SFKBL5000681MX | 680pF | | 500# | | | | | 3 | 22 | 41 |
| * SFKBL5000102MX | 1.0nF | X7R | 500# | | | | | 6 | 25 | 44 |
| SFKBL5000152MX | 1.5nF | | 500# | | | | | 9 | 29 | 48 |
| * SFKBL5000222MX | 2.2nF | | 500# | | | | | 12 | 31 | 51 |
| SFKBL5000332MX | 3.3nF | | 500# | | | | | 15 | 35 | 54 |
| * SFKBL5000472MX | 4.7nF | | 500# | | | | 1 | 18 | 39 | 57 |
| SFKBL5000682MX | 6.8nF | | 500# | | | | 2 | 21 | 41 | 60 |
| * SFKBL5000103MX | 10nF | | 500# | | | | 4 | 23 | 43 | 63 |
| * SFKBL5000153MX | 15nF | | 500# | | | | 7 | 27 | 46 | 66 |
| * SFKBL5000223MX | 22nF | | 500# | | | | 10 | 30 | 48 | 68 |
| SFKBL5000333MX | 33nF | | 500# | | | | 13 | 34 | 50 | 70 |
| * SFKBL2000473MX | 47nF | | 200 | 500 | | 1 | 17 | 37 | 51 | >70 |
| SFKBL2000683MX | 68nF | | 200 | | | 2 | 20 | 40 | 55 | >70 |
| *SFKBL1000104MX | 100nF | | 100 | 250 | | 4 | 22 | 44 | 60 | >70 |
| *SFKBL0500154MX | 150nF | | 50 | 125 | | 7 | 25 | 47 | 62 | >70 |

# Also rated for operation at 115Vac 400Hz. Self heating will occur – evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

## Ordering Information - SFKBL range

| SF | K | B | L | 500 | 0101 | M | C | 0 |
|---|---|---|---|---|---|---|---|---|
| Type | Case style | Thread | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Tolerance | Dielectric | Nuts & Washers |
| Syfer Filter | 4.4mm O.D. | 6-32 UNC | **L** = L-C Filter | **050** = 50V<br>**100** = 100V<br>**200** = 200V<br>**500** = 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: **0101** = 100pF<br>**0332** = 3300pF | **M** = ±20%<br>**Z** = -20+80% | **C** = C0G/NP0<br>**X** = X7R | **0** = Without |

Note: Installation tool available on request
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 SFKBC0500473MX0 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