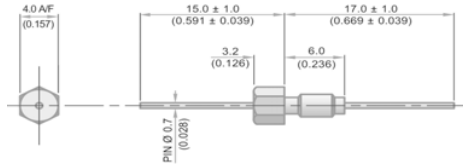


Feedthrough EMI Filter Datasheet
(6-32 UNC Thread : 4.0mm Hexagonal Head)

Circuit Configuration



Dimensions mm (inches)



6-32 UNC Class 2A Thread

| 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 | 4mm (0.157") |
| Nut A/F | 4.75mm (0.187") |
| Washer Diameter | 6.9mm (0.272") |
| Mounting Torque | 0.3Nm (2.65lbf in) max. if using nut 0.15Nm (1.32lbf in) max. into tapped hole |
| Mounting Hole Diameter | 3.7mm ± 0.1 (0.146" ± 0.004") |
| Max. Panel Thickness | 3.2mm (0.126") |
| Weight (Typical) | 0.6g (0.02oz) |
| Finish | Silver plate on copper undercoat |

| Product Code | Hardware (Nuts & Washers etc.) | Capacitance ±20% UOS | Dielectric | Rated Voltage (dc) | DWV (dc) | Typical Insertion Loss (db) | | | | | |
|-----------------|--|----------------------|------------|--------------------|----------|-----------------------------|--------|------|-------|--------|------|
| | | | | | | 0.01MHz | 0.1MHz | 1MHz | 10MHz | 100MHz | 1GHz |
| *SFABC5000100ZC | 0 = No hardware supplied 1 = supplied with standard nut and wavy washer Other options available - please contact factory | 10pF -20% / +80% | C0G | 500 | 750 | | | | | | 4 |
| SFABC5000150ZC | | 15pF -20% / +80% | C0G | 500 | 750 | | | | | | 7 |
| SFABC5000220ZC | | 22pF -20% / +80% | C0G | 500 | 750 | | | | | | 10 |
| SFABC5000330ZC | | 33pF -20% / +80% | C0G | 500 | 750 | | | | | | 12 |
| *SFABC5000470ZC | | 47pF -20% / +80% | C0G | 500 | 750 | | | | | 1 | 15 |
| *SFABC5000680MC | | 68pF | C0G | 500 | 750 | | | | | 2 | 18 |
| *SFABC5000101MC | | 100pF | C0G | 500 | 750 | | | | | 4 | 22 |
| SFABC5000151MC | | 150pF | C0G | 500 | 750 | | | | | 7 | 25 |
| *SFABC5000221MC | | 220pF | C0G | 500 | 750 | | | | | 10 | 29 |
| *SFABC5000331MC | | 330pF | C0G | 500 | 750 | | | | | 13 | 33 |
| *SFABC5000471MX | | 470pF | †X7R | 500 | 750 | | | | 1 | 16 | 35 |
| SFABC5000681MX | | 680pF | †X7R | 500 | 750 | | | | 2 | 19 | 36 |
| *SFABC5000102MX | | 1.0nF | X7R | 500 | 750 | | | | 4 | 23 | 41 |
| SFABC5000152MX | | 1.5nF | X7R | 500 | 750 | | | | 7 | 26 | 45 |
| *SFABC5000222MX | | 2.2nF | X7R | 500 | 750 | | | | 10 | 30 | 50 |
| SFABC5000332MX | | 3.3nF | X7R | 500 | 750 | | | | 13 | 33 | 52 |
| *SFABC5000472MX | | 4.7nF | X7R | 500 | 750 | | | 1 | 16 | 36 | 55 |
| SFABC5000682MX | | 6.8nF | X7R | 500 | 750 | | | 2 | 19 | 39 | 57 |
| *SFABC5000103MX | | 10nF | X7R | 500 | 750 | | | 4 | 22 | 41 | 60 |
| *SFABC5000153MX | | 15nF | X7R | 500 | 750 | | | 7 | 25 | 44 | 62 |
| *SFABC5000223MX | | 22nF | X7R | 500 | 750 | | | 10 | 29 | 46 | 65 |
| SFABC5000333MX | | 33nF | X7R | 500 | 750 | | | 13 | 33 | 48 | 68 |
| *SFABC2000473MX | | 47nF | X7R | 200 | 500 | | 1 | 16 | 35 | 50 | 70 |
| SFABC2000683MX | | 68nF | X7R | 200 | 500 | | 2 | 19 | 39 | 54 | >70 |
| SFABC1000104MX | | 100nF | X7R | 100 | 250 | | 4 | 22 | 41 | 57 | >70 |
| SFABC0500154MX | | 150nF | X7R | 50 | 125 | | 7 | 25 | 45 | 60 | >70 |

* Recommended values

† Also available in COG

Ordering Information Note: Ordering code can have up to 4 additional digits on the end to denote special requirements

| Type | Case Style | Thread | Electrical configuration | Voltage (dc) | Capacitance in picofarads (pF) | Capacitance Tolerance | Dielectric | Hardware |
|--------------|----------------|----------|--------------------------|---|---|-------------------------|------------------------|-------------------------|
| SF | A | B | C | 500 | 0102 | M | X | O |
| Syfer Filter | 4.0mm Hex Head | 6-32 UNC | 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 the number of zeros following. Examples: 0101 = 100pF 0332 = 330pF | M = ±20% Z = -20+80% | C = COG/NPO X = X7R | 0 = Without 1 = With |

