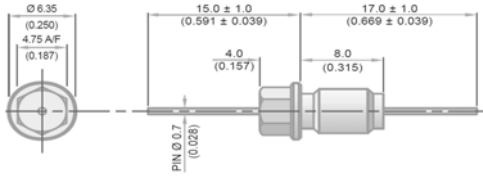


**Feedthrough EMI Filter Datasheet**  
(12-32 UNEF Tread : 4.75mm Hexagonal Head)

**Circuit Configuration**



**Dimensions mm (inches)**



12-32 UNEF 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	
Body Flange Diameter	6.35mm (0.250")
Head A/F	4.75mm (0.187")
Nut A/F	7.92mm (0.312")
Washer Diameter	11.35mm (0.447")
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	4.9mm (0.193")
Weight (Typical)	1.5g (0.05oz)
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
*SFBDC5000100ZC	0 = No hardware supplied 1 = supplied with standard nut and wavy washer Other options available – please contact factory	10pF -20% / +80%	COG	500	750						4
SFBDC5000150ZC		15pF -20% / +80%	COG	500	750						7
SFBDC5000220ZC		22pF -20% / +80%	COG	500	750						10
SFBDC5000330ZC		33pF -20% / +80%	COG	500	750						12
*SFBDC5000470ZC		47pF -20% / +80%	COG	500	750					1	15
*SFBDC5000680MC		68pF	COG	500	750					2	18
*SFBDC5000101MC		100pF	COG	500	750					4	22
SFBDC5000151MC		150pF	COG	500	750					7	25
*SFBDC5000221MC		220pF	COG	500	750					10	29
*SFBDC5000331MC		330pF	COG	500	750					13	33
*SFBDC5000471MX		470pF	†X7R	500	750				1	16	35
SFBDC5000681MX		680pF	†X7R	500	750				2	19	36
*SFBDC5000102MX		1.0nF	X7R	500	750				4	23	41
SFBDC5000152MX		1.5nF	X7R	500	750				7	26	45
*SFBDC5000222MX		2.2nF	X7R	500	750				10	30	50
SFBDC5000332MX		3.3nF	X7R	500	750				13	33	52
*SFBDC5000472MX		4.7nF	X7R	500	750			1	16	36	55
SFBDC5000682MX		6.8nF	X7R	500	750			2	19	39	57
*SFBDC5000103MX		10nF	X7R	500	750			4	22	41	60
*SFBDC5000153MX		15nF	X7R	500	750			7	25	44	62
*SFBDC5000223MX		22nF	X7R	500	750			10	29	46	65
SFBDC5000333MX		33nF	X7R	500	750			13	33	48	68
*SFBDC2000473MX		47nF	X7R	200	500		1	16	35	50	70
SFBDC2000683MX		68nF	X7R	200	500		2	19	39	54	>70
SFBDC1000104MX		100nF	X7R	100	250		4	22	41	57	>70
SFBDC0500154MX		150nF	X7R	50	125		7	25	45	60	>70

\* Recommended values

† Also available in COG

**Ordering Information**

Type	Case Style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Hardware
SF	B	D	C	500	0102	M	X	O
Syfer Filter	4.75mm 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 the number of zeros following. Examples: 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 pin length / custom body dimensions or threads / alternative voltage rating / non-standard intermediate capacitance values / test requirements.

Please refer specific requests to the factory.

