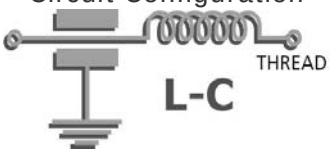
Filter Type
SFBML

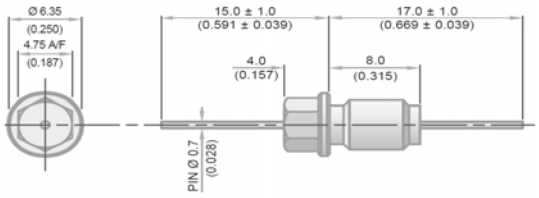
Feedthrough EMI Filter Datasheet

(M5 Thread : 4.75mm Hexagonal Head)

Circuit Configuration



Dimensions mm (inches)



M5 × 0.8 – 6g Thread

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	
Body Flange Diameter	6.35mm *(0.250")*
Head A/F	4.75mm *(0.187")*
Nut A/F	6mm *(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	4.9mm *(0.193")*
Weight (Typical)	1.5g *(0.05oz)*
Finish	Silver plate on copper undercoat

Product Code	Hardware	Capacitance ±20% UOS	Dielectric	Rated Voltage (dc)	DWV (dc)	Typical Insertion Loss (db) 0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBML5000100ZC	0 = No hardware supplied 1 = supplied with standard nut and wavy washer Other options available – please contact factory	10pF -20% / +80%	C0G	500	750						6
SFBML5000150ZC		15pF -20% / +80%	C0G	500	750						9
SFBML5000220ZC		22pF -20% / +80%	C0G	500	750						12
SFBML5000330ZC		33pF -20% / +80%	C0G	500	750					1	15
*SFBML5000470ZC		47pF -20% / +80%	C0G	500	750					2	19
*SFBML5000680MC		68pF	C0G	500	750					4	20
*SFBML5000101MC		100pF	C0G	500	750					7	24
SFBML5000151MC		150pF	C0G	500	750					10	27
*SFBML5000221MC		220pF	C0G	500	750					12	30
*SFBML5000331MC		330pF	C0G	500	750				1	16	34
*SFBML5000471MX		470pF	†X7R	500	750				2	19	38
SFBML5000681MX		680pF	†X7R	500	750				3	22	41
*SFBML5000102MX		1.0nF	X7R	500	750				6	25	44
SFBML5000152MX		1.5nF	X7R	500	750				9	29	48
*SFBML5000222MX		2.2nF	X7R	500	750				12	31	51
SFBML5000332MX		3.3nF	X7R	500	750				15	35	54
*SFBML5000472MX		4.7nF	X7R	500	750			1	18	39	57
SFBML5000682MX		6.8nF	X7R	500	750			2	21	41	60
*SFBML5000103MX		10nF	X7R	500	750			4	23	43	63
*SFBML5000153MX		15nF	X7R	500	750			7	27	46	66
*SFBML5000223MX		22nF	X7R	500	750			10	30	48	68
SFBML5000333MX		33nF	X7R	500	750			13	34	50	70
*SFBML2000473MX		47nF	X7R	200	500		1	17	37	51	>70
SFBML2000683MX		68nF	X7R	200	500		2	20	40	55	>70
SFBML1000104MX		100nF	X7R	100	250		4	22	44	60	>70
SFBML0500154MX		150nF	X7R	50	125		7	25	47	62	>70

* Recommended values

† Also available in C0G

Ordering Information

Type	Case Style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Nuts & washers
SF	**B**	**M**	**L**	**500**	**0102**	**M**	**X**	**0**
Syfer Filter	4.75mm Hex Head	M5	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 the number of zeros following. Examples: 0101 = 100pF 0332 = 3300pF	M = ±20% Z = -20+80%	C = C0G/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 pin length / custom body dimensions or threads / alternative voltage rating / non-standard intermediate capacitance values / test requirements.

Please refer specific requests to the factory.

Syfer Technology Ltd.
Old Stoke Road, Arminghall
Norwich, Norfolk, NR14 8SQ
United Kingdom

Tel: +44 1603 723300 | Email sales@syfer.co.uk | www.syfer.com