



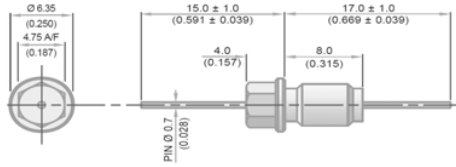
# Feedthrough EMI Filter Datasheet

(M5 Thread : 4.75mm Hexagonal Head)

## Circuit Configuration



## Dimensions mm (inches)



M5 x 0.8 – 6g Thread

Electrical Details	
Electrical Configuration	T Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	10A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55°C to +125°C
Ferrite Inductance (Typical)	450nH
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 (Maximum)	0.6Nm (5.31lbf in) if using nut 0.3Nm (2.65lbf in) 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
*SFBMT5000100ZC	0 = No hardware supplied 1 = supplied with standard nut and wavy washer Other options available – please contact factory	10pF -20% / +80%	C0G	500	750						9
SFBMT5000150ZC		15pF -20% / +80%	C0G	500	750						11
SFBMT5000220ZC		22pF -20% / +80%	C0G	500	750					1	14
SFBMT5000330ZC		33pF -20% / +80%	C0G	500	750					2	18
*SFBMT5000470ZC		47pF -20% / +80%	C0G	500	750					4	20
*SFBMT5000680MC		68pF	C0G	500	750					6	23
*SFBMT5000101MC		100pF	C0G	500	750					9	27
SFBMT5000151MC		150pF	C0G	500	750					12	30
*SFBMT5000221MC		220pF	C0G	500	750					15	33
*SFBMT5000331MC		330pF	C0G	500	750				1	19	36
*SFBMT5000471MC		470pF	†X7R	500	750				2	21	40
SFBMT5000681MC		680pF	†X7R	500	750				4	24	43
*SFBMT5000102MX		1.0nF	X7R	500	750				7	28	47
SFBMT5000152MX		1.5nF	X7R	500	750				10	30	50
*SFBMT5000222MX		2.2nF	X7R	500	750				13	34	53
SFBMT5000332MX		3.3nF	X7R	500	750				17	38	57
*SFBMT5000472MX		4.7nF	X7R	500	750				19	40	59
SFBMT5000682MX		6.8nF	X7R	500	750			1	23	43	63
*SFBMT5000103MX		10nF	X7R	500	750			4	26	45	66
*SFBMT5000153MX		15nF	X7R	500	750			7	29	47	68
*SFBMT5000223MX	22nF	X7R	500	750			10	33	49	70	
SFBMT5000333MX	33nF	X7R	500	750			14	36	50	>70	
*SFBMT2000473MX	47nF	X7R	200	500		1	17	39	52	>70	
SFBMT2000683MX	68nF	X7R	200	500		2	20	42	57	>70	
SFBMT1000104MX	100nF	X7R	100	250		4	22	46	62	>70	
SFBMT0500154MX	150nF	X7R	50	125		7	25	49	68	>70	

\* Recommended values

† Also available in COG

## Ordering Information

Type	Case Style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Nuts & washers
SF	B	M	T	500	0102	M = ±20% Z = -20+80%	X	O
Syfer Filter	4.75mm Hex Head	M5	T = T 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		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.



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