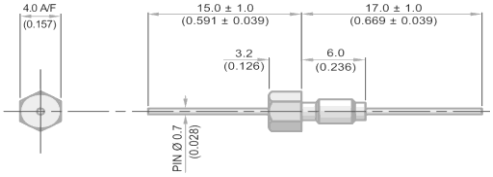
Filter Type
SFAAC

Feedthrough EMI Filter Datasheet

(4-40 UNC Thread : 4.0mm Hexagonal Head)

Circuit Configuration

Dimensions mm (inches)



4-40 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")*
Mounting Torque	0.15Nm *(1.32lbf in)* max.
Mounting Hole Diameter	4-40 UNC Class 2B
Max. Panel Thickness	N/a
Weight (Typical)	0.5g *(0.017oz)*
Finish	Silver plate on copper undercoat

Product Code	Hardware (Nuts & Washers etc.)	Capacitance ±20% UOS	Dielectric	Rated Voltage (dc)	DWV (dc)	Typical No-Load Insertion Loss (db) 0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFAAC5000100ZC	0 = No hardware supplied Other options available – please contact factory	10pF -20% / +80%	C0G	500#	750						4
SFAAC5000150ZC		15pF -20% / +80%	C0G	500#	750						7
SFAAC5000220ZC		22pF -20% / +80%	C0G	500#	750						10
SFAAC5000330ZC		33pF -20% / +80%	C0G	500#	750						12
*SFAAC5000470ZC		47pF -20% / +80%	C0G	500#	750					1	15
*SFAAC5000680MC		68pF	C0G	500#	750					2	18
*SFAAC5000101MC		100pF	C0G	500#	750					4	22
SFAAC5000151MC		150pF	C0G	500#	750					7	25
*SFAAC5000221MC		220pF	C0G	500#	750					10	29
*SFAAC5000331MC		330pF	C0G	500#	750					13	33
*SFAAC5000471MX		470pF	†X7R	500#	750				1	16	35
SFAAC5000681MX		680pF	†X7R	500#	750				2	19	36
*SFAAC5000102MX		1.0nF	X7R	500#	750				4	23	41
SFAAC5000152MX		1.5nF	X7R	500#	750				7	26	45
*SFAAC5000222MX		2.2nF	X7R	500#	750				10	30	50
SFAAC5000332MX		3.3nF	X7R	500#	750				13	33	52
*SFAAC5000472MX		4.7nF	X7R	500#	750			1	16	36	55
SFAAC5000682MX		6.8nF	X7R	500#	750			2	19	39	57
*SFAAC5000103MX		10nF	X7R	500#	750			4	22	41	60
*SFAAC5000153MX		15nF	X7R	500#	750			7	25	44	62
*SFAAC5000223MX		22nF	X7R	500#	750			10	29	46	65
SFAAC5000333MX		33nF	X7R	500#	750			13	33	48	68
*SFAAC2000473MX		47nF	X7R	200	500		1	16	35	50	70
SFAAC2000683MX		68nF	X7R	200	500		2	19	39	54	>70
*SFAAC1000104MX		100nF	X7R	100	250		4	22	41	57	>70
*SFAAC0500154MX		150nF	X7R	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

Ordering Information

Type	Case Style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Hardware
SF	**A**	**A**	**C**	**500**	**0333**	**M**	**X**	**0**
Syfer Filter	4.0mm Hex Head	4-40 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 = 3300pF	M = ±20% Z = -20+80%	C = C0G/NP0 X = X7R	0 = Without

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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