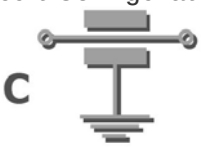
Filter Type
SFCIC

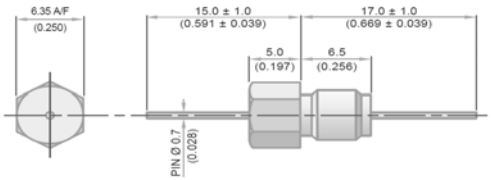
Feedthrough EMI Filter Datasheet

(2BA Thread : 6.35mm Hexagonal Head)

Circuit Configuration



Dimensions mm (inches)



2BA 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	6.35mm *(0.250")*
Nut A/F	6.35mm *(0.250")*
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	4.9mm ± 0.1 *(0.193" ± 0.004")*
Max. Panel Thickness	3.4mm *(0.134")*
Weight (Typical)	1.8g *(0.06oz)*
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
*SFCIC5000100ZC	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
SFCIC5000150ZC		15pF -20% / +80%	C0G	500	750						7
SFCIC5000220ZC		22pF -20% / +80%	C0G	500	750						10
SFCIC5000330ZC		33pF -20% / +80%	C0G	500	750						12
*SFCIC5000470ZC		47pF -20% / +80%	C0G	500	750					1	15
*SFCIC5000680MC		68pF	C0G	500	750					2	18
*SFCIC5000101MC		100pF	C0G	500	750					4	22
SFCIC5000151MC		150pF	C0G	500	750					7	25
*SFCIC5000221MC		220pF	C0G	500	750					10	29
*SFCIC5000331MC		330pF	C0G	500	750					13	33
*SFCIC5000471MX		470pF	†X7R	500	750				1	16	35
SFCIC5000681MX		680pF	†X7R	500	750				2	19	36
*SFCIC5000102MX		1.0nF	X7R	500	750				4	23	41
SFCIC5000152MX		1.5nF	X7R	500	750				7	26	45
*SFCIC5000222MX		2.2nF	X7R	500	750				10	30	50
SFCIC5000332MX		3.3nF	X7R	500	750				13	33	52
*SFCIC5000472MX		4.7nF	X7R	500	750			1	16	36	55
SFCIC5000682MX		6.8nF	X7R	500	750			2	19	39	57
*SFCIC5000103MX		10nF	X7R	500	750			4	22	41	60
*SFCIC5000153MX		15nF	X7R	500	750			7	25	44	62
*SFCIC5000223MX		22nF	X7R	500	750			10	29	46	65
SFCIC5000333MX		33nF	X7R	500	750			13	33	48	68
*SFCIC5000473MX		47nF	X7R	500	750		1	16	35	50	70
SFCIC5000683MX		68nF	X7R	500	750		2	19	39	54	>70
SFCIC5000104MX		100nF	X7R	500	750		4	22	41	57	>70
SFCIC5000154MX		150nF	X7R	500	750		7	25	45	60	>70
*SFCIC2000224MX		220nF	X7R	200	500		10	29	49	62	>70
SFCIC1000334MX		330nF	X7R	100	250		13	33	52	66	>70
*SFCIC1000474MX		470nF	X7R	100	250	1	16	35	55	68	>70
SFCIC0500684MX		680nF	X7R	50	125	2	19	38	58	70	>70

* 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	**C**	**I**	**C**	**500**	**0102**	**M**	**X**	**0**
Syfer Filter	6.35mm Hex Head	2BA	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 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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