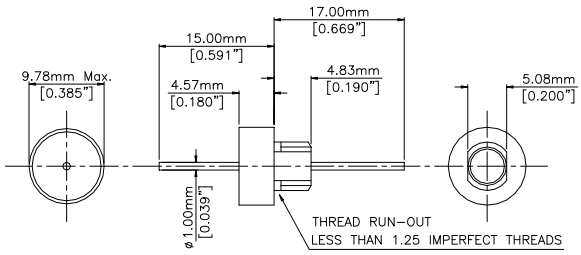
Filter Type
SFJGL

Feedthrough EMI Filter Datasheet

(¼-28 UNF Thread (5.08mm A/F) : 9.78mm Round Head)

Circuit Configuration

Dimensions mm (inches)



¼-28 UNF Class 2A Thread

Electrical Details	
Electrical Configuration	L-C Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	15A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55°C to +125°C
Ferrite Inductance (Typical)	500nH @ 1MHz
Mechanical Details	
Head Diameter	9.8mm *(0.386")*
Nut A/F	7.92mm *(0.312")*
Washer Diameter	11.35mm *(0.447")*
Mounting Torque	0.9Nm *(7.97lbf in)* max.
Mounting Hole Diameter	 6.7mm O.D., 5.3mm A/F *(0.264" O.D., 0.217" A/F)*
Max. Panel Thickness	2.3mm *(0.091")*
Weight (Typical)	3.0g *(0.11oz)*
Finish ** (see notes below)	Silver plate on copper undercoat

Product Code	Hardware (Nuts & Washers etc.)	Capacitance ±20%	Dielectric	Rated Voltage (dc)	DWV (dc)	Typical No-Load Insertion Loss (db) 0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
SFJGL3K00101MC	0 = No hardware supplied 1 = supplied with standard nut and wavy washer Other options available – please contact factory	100pF	C0G	3kV*	3.75kV					7	24
SFJGL3K00151MC		150pF	C0G	3kV*	3.75kV					10	27
SFJGL3K00221MC		220pF	C0G	3kV*	3.75kV					12	30
SFJGL2K00331MC		330pF	C0G	2kV*	2.5kV				1	16	34
SFJGL2K00471MC		470pF	C0G	2kV*	2.5kV				2	19	38
SFJGL2K00681MC		680pF	C0G	2kV*	2.5kV				3	22	41
SFJGL2K00102MC		1.0nF	C0G	2kV*	2.5kV				6	25	44
SFJGL2K00152MX		1.5nF	X7R	2kV*	2.5kV				9	29	48
SFJGL2K00222MX		2.2nF	X7R	2kV*	2.5kV				12	31	51
SFJGL2K00332MX		3.3nF	X7R	2kV*	2.5kV				15	35	54
SFJGL2K00472MX		4.7nF	X7R	2kV*	2.5kV			1	18	39	57
SFJGL2K00682MX		6.8nF	X7R	2kV*	2.5kV			2	21	41	60
SFJGL2K00103MX		10nF	X7R	2kV*	2.5kV			4	23	43	63
SFJGL1K00153MX		15nF	X7R	1kV*	1.5kV			7	27	46	66
SFJGL1K00223MX		22nF	X7R	1kV*	1.5kV			10	30	48	68
SFJGL1K00333MX		33nF	X7R	1kV*	1.5kV			13	34	50	70
SFJGL1K00473MX		47nF	X7R	1kV*	1.5kV		1	17	37	51	>70
SFJGL1K00683MX		68nF	X7R	1kV*	1.5kV		2	20	40	55	>70
SFJGL5000104MX		100nF	X7R	500*	750		4	22	44	60	>70
SFJGL5000154MX		150nF	X7R	500*	750		7	25	47	62	>70
SFJGL5000224MX		220nF	X7R	500*	750		10	29	49	66	>70
SFJGL5000334MX		330nF	X7R	500*	750		13	33	53	68	>70
SFJGL5000474MX		470nF	X7R	500	750	1	16	35	56	70	>70
SFJGL3000684MX		680nF	X7R	300	600	2	19	38	58	>70	>70
SFJGL2000105MX		1.0µF	X7R	200	500	4	22	41	61	>70	>70
SFJGL1000155MX		1.5µF	X7R	100	250	7	25	45	64	>70	>70
SFJGL1000225MX		2.2µF	X7R	100	250	10	29	48	66	>70	>70
SFJGL0500335MX		3.3µF	X7R	50	125	14	34	52	70	>70	>70

* - Also rated for operation at 115Vac 400Hz. Self heating will occur – evaluation in situ recommended

Ordering Information

Note: Ordering code can have up to 4 additional digits on the end to denote special requirements

Type	Case Style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Hardware
SF	**J**	**G**	**L**	**050**	**0335**	**M**	**X**	**1**
Syfer Filter	9.78mm Maximum Diameter	¼-28 UNF 5.08mm A/F	L = L-C Filter	050 = 50V 100 = 100V 200 = 200V 300 = 300V 500 = 500V 1K0 = 1kV 2K0 = 2kV 3K0 =3kV	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 0332 = 3.3µF	M = ±20%	C = C0G/NP0 X = X7R	1 = Nut & Wavy Washer 3 = Nut & Toothed Lockwasher

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.

** Standard Option 90Sn/10Pb plating finish on all metalwork (body, pin, nut and wavy washer) specified by suffix code /0100

Please refer specific requests to the factory.

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