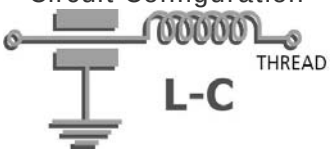
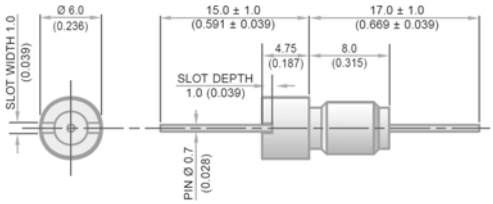
Filter Type
SFLML

Feedthrough EMI Filter Datasheet
(M5 Thread : 6.0mm Round 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	
Head Diameter	6.0mm *(0.236")*
Nut A/F	N/a. For use in tapped hole
Washer Diameter	N/a
Mounting Torque	0.3Nm *(2.65lbf in)* max.
Mounting Hole	M5 × 0.8 – 6h
Max. Panel Thickness	N/a
Weight (Typical)	2.0g *(0.07oz)*
Finish	Silver plate on copper undercoat

Product Code	Capacitance ±20%	Dielectric	Rated Voltage (dc)	DWV (dc)	Typical Insertion Loss (db) 0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFLML5000100ZC	10pF -20% / +80%	C0G	500	750						6
SFLML5000150ZC	15pF -20% / +80%	C0G	500	750						9
SFLML5000220ZC	22pF -20% / +80%	C0G	500	750						12
SFLML5000330ZC	33pF -20% / +80%	C0G	500	750					1	15
*SFLML5000470ZC	47pF -20% / +80%	C0G	500	750					2	19
*SFLML5000680MC	68pF	C0G	500	750					4	20
*SFLML5000101MC	100pF	C0G	500	750					7	24
SFLML5000151MC	150pF	C0G	500	750					10	27
*SFLML5000221MC	220pF	C0G	500	750					12	30
*SFLML5000331MC	330pF	C0G	500	750				1	16	34
*SFLML5000471MX	470pF	†X7R	500	750				2	19	38
SFLML5000681MX	680pF	†X7R	500	750				3	22	41
*SFLML5000102MX	1.0nF	X7R	500	750				6	25	44
SFLML5000152MX	1.5nF	X7R	500	750				9	29	48
*SFLML5000222MX	2.2nF	X7R	500	750				12	31	51
SFLML5000332MX	3.3nF	X7R	500	750				15	35	54
*SFLML5000472MX	4.7nF	X7R	500	750			1	18	39	57
SFLML5000682MX	6.8nF	X7R	500	750			2	21	41	60
*SFLML5000103MX	10nF	X7R	500	750			4	23	43	63
*SFLML5000153MX	15nF	X7R	500	750			7	27	46	66
*SFLML5000223MX	22nF	X7R	500	750			10	30	48	68
SFLML5000333MX	33nF	X7R	500	750			13	34	50	70
*SFLML2000473MX	47nF	X7R	200	500		1	17	37	51	>70
SFLML2000683MX	68nF	X7R	200	500		2	20	40	55	>70
SFLML1000104MX	100nF	X7R	100	250		4	22	44	60	>70
SFLML0500154MX	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	L	M	L	500	0102	M	X	0
Syfer Filter	6.0mm O.D.	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

Note: Installation tool available on request

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