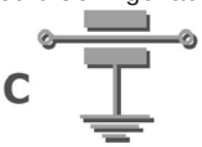
Filter Type
SFNOC

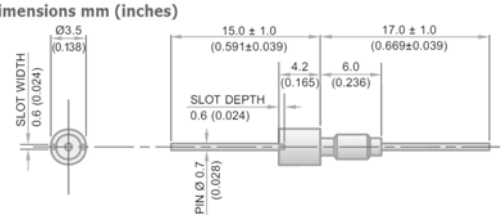
Feedthrough EMI Filter Datasheet

(M2.5 Thread : 3.5mm Round Head)

Circuit Configuration



Dimensions mm (inches)



M2.5 × 0.45 – 6g 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 Diameter	3.5mm *(0.138")*
Nut A/F	N/a. For use in tapped hole
Washer Diameter	N/a
Mounting Torque	0.15Nm *(1.32lbf in)* max.
Mounting Hole	M2.5 × 0.45 – 6h
Max. Panel Thickness	N/a
Weight (Typical)	0.6g *(0.02oz)*
Finish	Silver plate on copper undercoat

Product Code	Capacitance -20 +80% UOS	Dielectric	Rated Voltage (dc)	DWV (dc)	Typical Insertion Loss (db) 0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
SFNOC1000100ZC0	10pF	C0G	100	250						4
SFNOC1000220ZC0	22pF	C0G	100	250						10
SFNOC1000470ZC0	47pF	X7R	100	250					1	15
SFNOC1000101ZC0	100pF	X7R	100	250					4	22
SFNOC1000221ZC0	220pF	X7R	100	250					10	29
SFNOC1000471ZX0	470pF	X7R	100	250				1	16	35
SFNOC1000102ZX0	1.0nF	X7R	100	250				4	23	41
SFNOC1000222ZX0	2.2nF	X7R	100	250				10	30	50
SFNOC1000472ZX0	4.7nF	X7R	100	250			1	16	36	55
SFNOC1000103ZX0	10nF	X7R	100	250			4	22	41	60
SFNOC1000223ZX0	22nF	X7R	100	250			10	29	46	65
SFNOC0500473ZX0	47nF	X7R	50	125		1	16	35	50	70

Intermediate values available subject to quanity. Refer to factory.

† Also available in C0G

Ordering Information

Type	Case Style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Capacitance Tolerance	Dielectric	Nuts & washers
SF	**N**	**O**	**C**	**500**	**0102**	**M**	**X**	**0**
Syfer Filter	3.5mm O.D.	M2.5	C = C Filter	050 = 50V 100 = 100V	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.

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