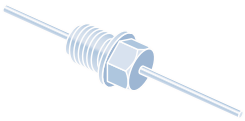
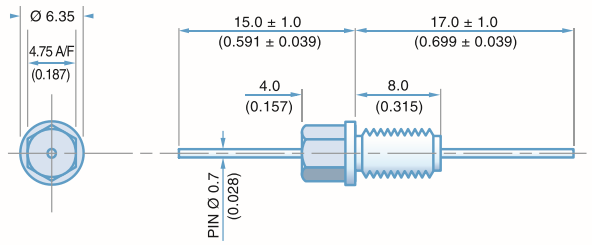


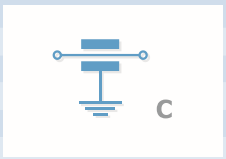


M5 x 0.8 - 6g Thread

4.75mm Hexagonal Head/6.35mm flange

Electrical Details

Electrical Configuration	C Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	10A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55ºC to +125ºC
Ferrite Inductance (Typical)	Not Applicable



Mechanical Details

Body Flange Diameter	6.35mm *(0.250")*
Head (A/F)	4.75mm *(0.187")*
Nut A/F	6.0mm *(0.236")*
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	5.2mm ±0.1 *(0.205 ±0.004")*
Max. Panel Thickness	4.9mm *(0.193")*
Weight (Typical)	1.5g *(0.05oz)*
Finish	Silver plate on copper undercoat

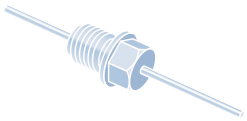
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBMC5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	4
SFBMC5000150ZC	15pF -20% / +80%				-	-	-	-	-	7
SFBMC5000220ZC	22pF -20% / +80%				-	-	-	-	-	10
SFBMC5000330ZC	33pF -20% / +80%				-	-	-	-	-	12
*SFBMC5000470ZC	47pF -20% / +80%				-	-	-	-	1	15
*SFBMC5000680MC	68pF				-	-	-	-	2	18
*SFBMC5000101MC	100pF				-	-	-	-	4	22
SFBMC5000151MC	150pF				-	-	-	-	7	25
*SFBMC5000221MC	220pF				-	-	-	-	10	29
*SFBMC5000331MC	330pF				-	-	-	-	13	33
*SFBMC5000471MX	470pF	†X7R			-	-	-	1	16	35
SFBMC5000681MX	680pF				-	-	-	2	19	36
*SFBMC5000102MX	1.0nF	X7R			-	-	-	4	23	41
SFBMC5000152MX	1.5nF				-	-	-	7	26	45
*SFBMC5000222MX	2.2nF				-	-	-	10	30	50
SFBMC5000332MX	3.3nF				-	-	-	13	33	52
*SFBMC5000472MX	4.7nF				-	-	1	16	36	55
SFBMC5000682MX	6.8nF				-	-	2	19	39	57
*SFBMC5000103MX	10nF				-	-	4	22	41	60
*SFBMC5000153MX	15nF				-	-	7	25	44	62
*SFBMC5000223MX	22nF				-	-	10	29	46	65
SFBMC5000333MX	33nF				-	-	13	33	48	68
*SFBMC2000473MX	47nF		200	500	-	1	16	35	50	70
SFBMC2000683MX	68nF				-	2	19	39	54	>70
*SFBMC1000104MX	100nF		100	250	-	4	22	41	57	>70
*SFBMC0500154MX	150nF		50	125	-	7	25	45	60	>70

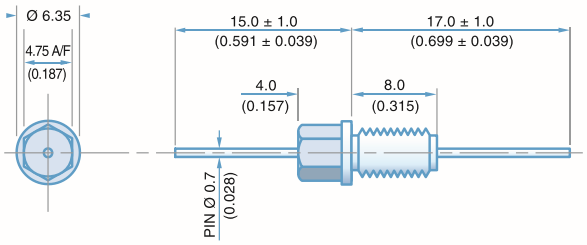
Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

Ordering Information - SFBMC range

SF	B	M	C	500	0102	M	X	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Nuts & Washers
Syfer Filter	4.75mm Hex Head	M5	**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 number of zeros following Example: **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 finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.

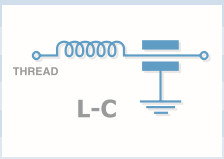




M5 x 0.8 - 6g Thread
4.75mm Hexagonal Head/6.35mm flange

Electrical Details

Electrical Configuration	L-C Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	10A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55ºC to +125ºC
Ferrite Inductance (Typical)	500nH



Mechanical Details

Body Flange Diameter	6.35mm *(0.250")*
Head (A/F)	4.75mm *(0.187")*
Nut A/F	6.0mm *(0.236")*
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	5.2mm ±0.1 *(0.205" ±0.004")*
Max. Panel Thickness	4.9mm *(0.193")*
Weight (Typical)	1.5g *(0.05oz)*
Finish	Silver plate on copper undercoat

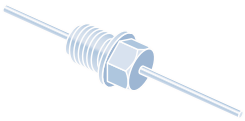
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBML5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	6
SFBML5000150ZC	15pF -20% / +80%				-	-	-	-	-	9
SFBML5000220ZC	22pF -20% / +80%				-	-	-	-	-	12
SFBML5000330ZC	33pF -20% / +80%				-	-	-	-	1	15
*SFBML5000470ZC	47pF -20% / +80%				-	-	-	-	2	19
*SFBML5000680MC	68pF				-	-	-	-	4	20
*SFBML5000101MC	100pF				-	-	-	-	7	24
SFBML5000151MC	150pF				-	-	-	-	10	27
*SFBML5000221MC	220pF				-	-	-	-	12	30
*SFBML5000331MC	330pF				-	-	-	1	16	34
*SFBML5000471MX	470pF	†X7R			-	-	-	2	19	38
SFBML5000681MX	680pF				-	-	-	3	22	41
*SFBML5000102MX	1.0nF	X7R			-	-	-	6	25	44
SFBML5000152MX	1.5nF				-	-	-	9	29	48
*SFBML5000222MX	2.2nF				-	-	-	12	31	51
SFBML5000332MX	3.3nF				-	-	-	15	35	54
*SFBML5000472MX	4.7nF				-	-	1	18	39	57
SFBML5000682MX	6.8nF				-	-	2	21	41	60
*SFBML5000103MX	10nF				-	-	4	23	43	63
*SFBML5000153MX	15nF				-	-	7	27	46	66
*SFBML5000223MX	22nF				-	-	10	30	48	68
SFBML5000333MX	33nF				-	-	13	34	50	70
*SFBML2000473MX	47nF		200	500	-	1	17	37	51	>70
SFBML2000683MX	68nF				-	2	20	40	55	>70
*SFBML1000104MX	100nF		100	250	-	4	22	44	60	>70
*SFBML0500154MX	150nF		50	125	-	7	25	47	62	>70

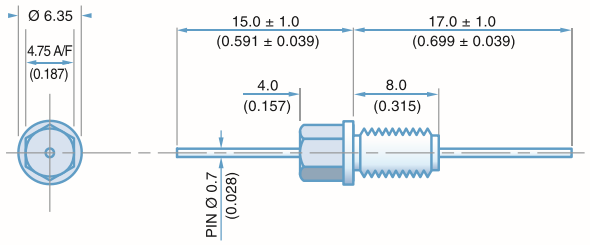
Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

Ordering Information - SFBML range

SF	B	M	L	500	0102	M	X	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Nuts & Washers
Syfer Filter	4.75mm Hex Head	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 number of zeros following Example: **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 finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.

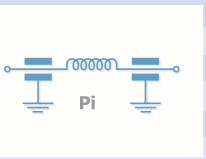




M5 x 0.8 - 6g Thread
4.75mm Hexagonal Head/6.35mm flange

Electrical Details

Electrical Configuration	Pi Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	10A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55ºC to +125ºC
Ferrite Inductance (Typical)	250nH



Mechanical Details

Body Flange Diameter	6.35mm *(0.250")*
Head A/F	4.75mm *(0.187")*
Nut A/F	6mm *(0.236")*
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	5.2mm ± 0.1 (0.205" ± 0.004")
Max. Panel Thickness	4.9mm (0.193")
Weight (Typical)	1.5g *(0.05oz)*
Finish	Silver plate on copper undercoat

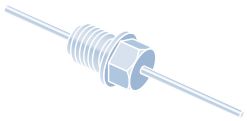
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBMP5000200ZC	20pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	1	11
SFBMP5000300ZC	30pF -20% / +80%				-	-	-	-	2	15
SFBMP5000440ZC	44pF -20% / +80%				-	-	-	-	3	19
SFBMP5000660ZC	66pF -20% / +80%				-	-	-	-	4	23
*SFBMP5000940ZC	94pF -20% / +80%				-	-	-	-	6	29
*SFBMP500136PMC	136pF				-	-	-	-	8	35
*SFBMP5000201MC	200pF				-	-	-	-	11	41
SFBMP5000301MC	300pF				-	-	-	1	15	50
*SFBMP5000441MC	440pF				-	-	-	2	20	57
*SFBMP5000661MC	660pF				-	-	-	3	25	65
*SFBMP5000941MX	940pF	†X7R			-	-	-	5	31	68
SFBMP5001N36MX	1.36nF				-	-	-	7	37	>70
*SFBMP5000202MX	2nF	X7R			-	-	-	10	44	>70
SFBMP5000302MX	3nF				-	-	-	13	51	>70
*SFBMP5000442MX	4.4nF				-	-	1	17	59	>70
SFBMP5000662MX	6.6nF				-	-	2	21	64	>70
*SFBMP5000942MX	9.4nF				-	-	4	27	68	>70
SFBMP50013N6MX	13.6nF				-	-	6	34	>70	>70
*SFBMP5000203MX	20nF				-	-	9	40	>70	>70
*SFBMP5000303MX	30nF				-	-	12	48	>70	>70
*SFBMP5000443MX	44nF				-	1	14	54	>70	>70
SFBMP5000663MX	66nF				-	2	17	63	>70	>70
*SFBMP2000943MX	94nF		200	500	-	4	18	68	>70	>70
SFBMP200136NMX	136nF				-	8	25	>70	>70	>70
*SFBMP1000204MX	200nF		100	250	-	10	27	>70	>70	>70
*SFBMP0500304MX	300nF		50	125	-	13	30	>70	>70	>70

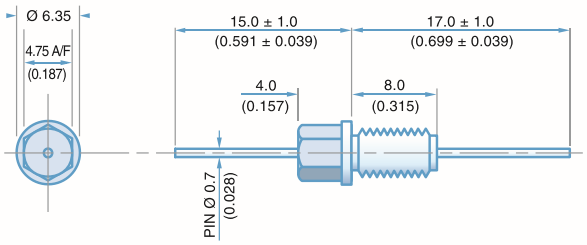
Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

Ordering Information - SFBMP range

SF	B	M	P	200	0943	M	X	0
Type	**Case style**	**Thread**	**Electrical configuration**	**Voltage (dc)**	**Capacitance in picofarads (pF)**	**Tolerance**	**Dielectric**	**Nuts & Washers**
Syfer Filter	4.75mm Hex Head	M5	**P** = Pi 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 number of zeros following Example: **0201** = 200pF **0943** = 94000pF	**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 finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.

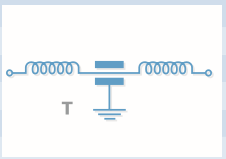




M5 x 0.8 - 6g Thread
4.75mm Hexagonal Head/6.35mm flange

Electrical Details

Electrical Configuration	T Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	10A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55ºC to +125ºC
Ferrite Inductance (Typical)	450nH



Mechanical Details

Body Flange Diameter	6.35mm *(0.250")*
Head (A/F)	4.75mm *(0.187")*
Nut A/F	6.0mm *(0.236")*
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	5.2mm ±0.1 *(0.205" ±0.004")*
Max. Panel Thickness	4.9mm *(0.193")*
Weight (Typical)	1.5g *(0.05oz)*
Finish	Silver plate on copper undercoat

Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBMT5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	9
SFBMT5000150ZC	15pF -20% / +80%				-	-	-	-	-	11
SFBMT5000220ZC	22pF -20% / +80%				-	-	-	-	1	14
SFBMT5000330ZC	33pF -20% / +80%				-	-	-	-	2	18
*SFBMT5000470ZC	47pF -20% / +80%				-	-	-	-	4	20
*SFBMT5000680MC	68pF				-	-	-	-	6	23
*SFBMT5000101MC	100pF				-	-	-	-	9	27
SFBMT5000151MC	150pF				-	-	-	-	12	30
*SFBMT5000221MC	220pF				-	-	-	-	15	33
*SFBMT5000331MC	330pF				-	-	-	1	19	36
*SFBMT5000471MX	470pF	†X7R			-	-	-	2	21	40
SFBMT5000681MX	680pF				-	-	-	4	24	43
*SFBMT5000102MX	1.0nF	X7R			-	-	-	7	28	47
SFBMT5000152MX	1.5nF				-	-	-	10	30	50
*SFBMT5000222MX	2.2nF				-	-	-	13	34	53
SFBMT5000332MX	3.3nF				-	-	-	17	38	57
*SFBMT5000472MX	4.7nF				-	-	-	19	40	59
SFBMT5000682MX	6.8nF				-	-	1	23	43	63
*SFBMT5000103MX	10nF				-	-	4	26	45	66
*SFBMT5000153MX	15nF				-	-	7	29	47	68
*SFBMT5000223MX	22nF				-	-	10	33	49	70
SFBMT5000333MX	33nF				-	-	14	36	50	>70
*SFBMT2000473MX	47nF		200	500	-	1	17	39	52	>70
SFBMT2000683MX	68nF				-	2	20	42	57	>70
*SFBMT1000104MX	100nF		100	250	-	4	22	46	62	>70
*SFBMT0500154MX	150nF		50	125	-	7	25	49	68	>70

Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

Ordering Information - SFBMT range

SF	B	M	T	500	0102	M	X	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Nuts & Washers
Syfer Filter	4.75mm Hex head	M5	**T** = T 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 number of zeros following Example: **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 finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.

Mouser Electronics

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Knowles:

SFBMP5000302MX1 SFBMT2000103MX1 SFBMP5000942MX1 SFBMP0500943MX1 SFBMP5000202MX1
SFBMP50013N6MX1 SFBMP5000662MX1 SFBMP500136PMC1 SFBML5000101MC1 SFBMC5000471MX1
SFBMP5000200ZC1 SFBMP2000203MX1 SFBMP5000441MC1 SFBMC2000683MX1 SFBMC5000102MX1
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