

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)	4.75mm (0.187")
Nut A/F	6.35mm (0.250")
Washer diameter	8mm (0.315")
Mounting Torque	0.5Nm (4.42lbf in) max. if using nut 0.25Nm (2.21lbf in) max. into tapped hole
Mounting Hole Diameter	4.4mm ±0.1 (0.173" ±0.004")
Max. Panel Thickness	2.9mm (0.114")
Weight (Typical)	1.2g (0.04oz)
Finish	Silver plate on copper undercoat

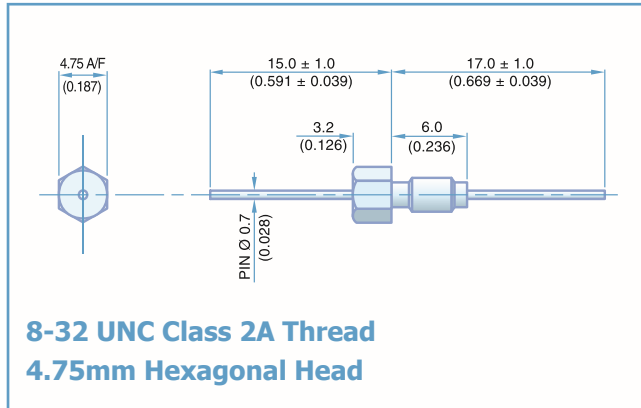
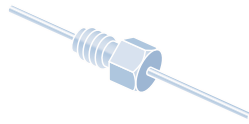
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBCC5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	4
SFBCC5000150ZC	15pF -20% / +80%				-	-	-	-	-	7
SFBCC5000220ZC	22pF -20% / +80%				-	-	-	-	-	10
SFBCC5000330ZC	33pF -20% / +80%				-	-	-	-	-	12
*SFBCC5000470ZC	47pF -20% / +80%				-	-	-	-	1	15
*SFBCC5000680MC	68pF				-	-	-	-	2	18
*SFBCC5000101MC	100pF				-	-	-	-	4	22
SFBCC5000151MC	150pF				-	-	-	-	7	25
*SFBCC5000221MC	220pF				-	-	-	-	10	29
*SFBCC5000331MC	330pF				-	-	-	-	13	33
*SFBCC5000471MX	470pF	†X7R			-	-	-	1	16	35
SFBCC5000681MX	680pF				-	-	-	2	19	36
*SFBCC5000102MX	1.0nF	X7R			-	-	-	4	23	41
SFBCC5000152MX	1.5nF				-	-	-	7	26	45
*SFBCC5000222MX	2.2nF				-	-	-	10	30	50
SFBCC5000332MX	3.3nF				-	-	-	13	33	52
*SFBCC5000472MX	4.7nF				-	-	1	16	36	55
SFBCC5000682MX	6.8nF				-	-	2	19	39	57
*SFBCC5000103MX	10nF				-	-	4	22	41	60
*SFBCC5000153MX	15nF				-	-	7	25	44	62
*SFBCC5000223MX	22nF				-	-	10	29	46	65
SFBCC5000333MX	33nF				-	-	13	33	48	68
*SFBCC2000473MX	47nF	200	500	-	1	16	35	50	70	
SFBCC2000683MX	68nF			-	2	19	39	54	>70	
*SFBCC1000104MX	100nF			-	4	22	41	57	>70	
*SFBCC0500154MX	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 COG/NP0.

Ordering Information - SFBCC range

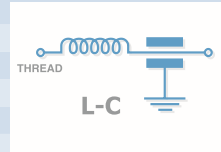
SF	B	C	C	500	0102	M	X	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Hardware
Syfer Filter	4.75mm Hex Head	8-32 UNC	C = C Filter	050 = 50V 100 = 100V 200 = 200V 500 = 500V	First digit is 0. Second and third digits are significant figures of capacitance code. The fourth digit is number of zeros following Example: 0101 = 100pF 0332 = 3300pF	M = ±20% Z = -20+80%	C = COG/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.



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)	50nH



Mechanical Details

Head (A/F)	4.75mm (0.187")
Nut A/F	6.35mm (0.250")
Washer diameter	8mm (0.315")
Mounting Torque	0.5Nm (4.42lbf in) max. if using nut 0.25Nm (2.21lbf in) max. into tapped hole
Mounting Hole Diameter	4.4mm ±0.1 (0.173" ±0.004")
Max. Panel Thickness	2.9mm (0.114")
Weight (Typical)	1.2g (0.04oz)
Finish	Silver plate on copper undercoat

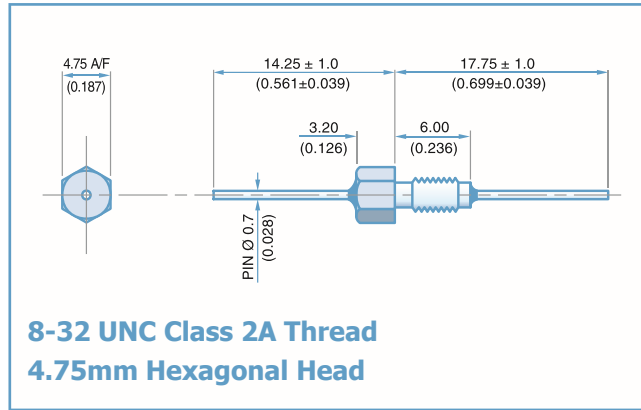
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBCL5000100ZC	10pF -20% / +80%	COG/NPO	500#	750	-	-	-	-	-	6
SFBCL5000150ZC	15pF -20% / +80%				-	-	-	-	-	9
SFBCL5000220ZC	22pF -20% / +80%				-	-	-	-	-	12
SFBCL5000330ZC	33pF -20% / +80%				-	-	-	-	1	15
*SFBCL5000470ZC	47pF -20% / +80%				-	-	-	-	2	19
*SFBCL5000680MC	68pF				-	-	-	-	4	20
*SFBCL5000101MC	100pF				-	-	-	-	7	24
SFBCL5000151MC	150pF				-	-	-	-	10	27
*SFBCL5000221MC	220pF				-	-	-	-	12	30
*SFBCL5000331MC	330pF				-	-	-	1	16	34
*SFBCL5000471MX	470pF	†X7R			-	-	-	2	19	38
SFBCL5000681MX	680pF				-	-	-	3	22	41
*SFBCL5000102MX	1.0nF	X7R			-	-	-	6	25	44
SFBCL5000152MX	1.5nF				-	-	-	9	29	48
*SFBCL5000222MX	2.2nF				-	-	-	12	31	51
SFBCL5000332MX	3.3nF				-	-	-	15	35	54
*SFBCL5000472MX	4.7nF				-	-	1	18	39	57
SFBCL5000682MX	6.8nF				-	-	2	21	41	60
*SFBCL5000103MX	10nF				-	-	4	23	43	63
*SFBCL5000153MX	15nF				-	-	7	27	46	66
*SFBCL5000223MX	22nF				-	-	10	30	48	68
SFBCL5000333MX	33nF				-	-	13	34	50	70
*SFBCL2000473MX	47nF		200	500	-	1	17	37	51	>70
SFBCL2000683MX	68nF		-	2	20	40	55	>70		
*SFBCL1000104MX	100nF		100	250	-	4	22	44	60	>70
*SFBCL0500154MX	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 COG/NPO.

Ordering Information - SFBCL range

SF	B	C	L	500	0102	M	X	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Hardware
Syfer Filter	4.75mm Hex Head	8-32 UNC	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 = COG/NPO 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.



Electrical Details

Electrical Configuration	Pi Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	10A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55°C to +125°C
Ferrite Inductance (Typical)	75nH



Mechanical Details

Head (A/F)	4.75mm (0.187")
Nut A/F	6.35mm (0.250")
Washer diameter	9.40mm (0.370")
Mounting Torque	0.5Nm (4.42lbf in) max. if using nut 0.25Nm (2.21lbf in) max. into tapped hole
Mounting Hole Diameter	4.4mm ±0.1 (0.173" ±0.004")
Max. Panel Thickness	2.9mm (0.114")
Weight (Typical)	1.2g (0.04oz)
Finish	Silver plate on copper undercoat

Product Code	Capacitance -20/+80%	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBCP5000200ZC	20pF	C0G/NP0	500#	750	-	-	-	-	1	11
SFBCP5000440ZC	44pF				-	-	-	-	3	19
SFBCP5000940ZC	94pF				-	-	-	-	6	25
*SFBCP5000201ZC	200pF				-	-	-	-	11	33
SFBCP5000441ZC	440pF				-	-	-	2	18	45
SFBCP5000941ZX	940pF	X7R			-	-	-	5	25	60
*SFBCP5000202ZX	2nF				-	-	-	10	40	70
SFBCP5000442ZX	4.4nF				-	-	1	17	47	>70
*SFBCP5000942ZX	9.4nF				-	-	4	24	60	>70
*SFBCP2000203ZX	20nF		200	500	-	-	9	28	70	>70
*SFBCP1000443ZX	44nF		100	250	-	0	14	42	>70	>70
*SFBCP0500943ZX	94nF		50	125	-	2	18	57	>70	>70

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

Ordering Information - SFBCP range

SF	B	C	P	050	0943	Z	X	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Hardware
Syfer Filter	4.75mm Hex Head	8-32 UNC	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	Z = -20+80%	C = COG/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.

Mouser Electronics

Authorized Distributor

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Knowles:

SFBCP0500203ZX1	SFBCP2000942ZX1	SFBCC1000104MX1	SFBCC2000473MX1	SFBCC5000472MX1
SFBCL1000104MX1	SFBCL5000223MX1	SFBCL5000472MX1	SFBCL5000682MX1	SFBCP0500203PX1
SFBCP0500943ZX1	SFBCP1000443ZX1	SFBCP5000942ZX1	SFBCC5000222MX1	SFBCC1000223MX1
SFBCC0500473MX1	SFBCP2000201ZC1	SFBCC2000103MX1	SFBCP5000440ZC1	SFBCL5000680MC1
SFBCL5000152MX0	SFBCL0500333MX0	SFBCC5000471MX0	SFBCL5000330ZC1	SFBCC5000221MC1
SFBCL0500333MX1	SFBCC5000150ZC1	SFBCP2000201ZC0	SFBCL2000103MX0	SFBCC5000150ZC0
SFBCP5000442ZX0	SFBCC5000471MX1	SFBCC5000220ZC0	SFBCC5000682MX1	SFBCL5000151MC1
SFBCL5000220ZC0	SFBCL5000100ZC0	SFBCL5000102MX1	SFBCC5000680MC1	SFBCL5000101MC0
SFBCL5000151MC0	SFBCC5000100ZC0	SFBCL5000471MX1	SFBCC0500333MX0	SFBCP5000940ZC1
SFBCL5000681MX0	SFBCL5000332MX0	SFBCC5000470ZC0	SFBCL5000472MX0	SFBCC2000153MX1
SFBCL5000101MC1	SFBCL5000470ZC1	SFBCC5000151MC1	SFBCC5000331MC1	SFBCP5000200ZC0
SFBCL5000222MX1	SFBCC1000223MX0	SFBCC5000472MX0	SFBCL2000153MX1	SFBCP5000202ZX1
SFBCC5000681MX0	SFBCC5000332MX1	SFBCP5000941ZX0	SFBCP5000440ZC0	SFBCL2000103MX1
SFBCL5000221MC1	SFBCC5000101MC0	SFBCC5000220ZC1	SFBCL2000153MX0	SFBCL5000681MX1
SFBCC5000330ZC0	SFBCC5000682MX0	SFBCC5000101MC1	SFBCC2000103MX0	SFBCL0500473MX0
SFBCC5000102MX0	SFBCP2000942ZX0	SFBCC2000153MX0	SFBCP1000441ZC0	SFBCC5000331MC0
SFBCL5000331MC1	SFBCC5000221MC0	SFBCC5000332MX0	SFBCC5000152MX0	SFBCL5000102MX0
SFBCL5000470ZC0	SFBCL5000682MX0	SFBCL5000152MX1	SFBCP5000442ZX1	SFBCC5000151MC0
SFBCP5000202ZX0	SFBCL5000221MC0	SFBCC0500333MX1	SFBCL1000223MX0	SFBCL5000150ZC0
SFBCL5000471MX0	SFBCL5000331MC0	SFBCC5000330ZC1	SFBCC5000100ZC1	SFBCP0500203ZX0