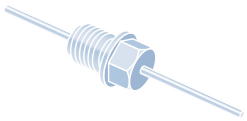
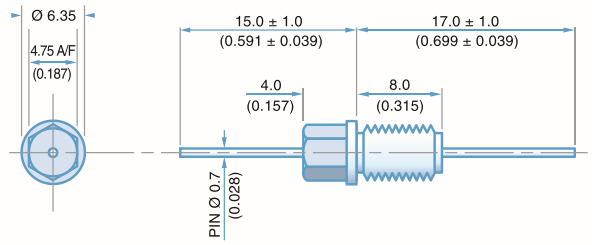
THE DATASHEET OF

SFBDP2000203MX0

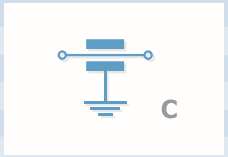




12-32 UNEF Class 2A Thread
4.75mm Hexagonal Head/6.35mm flange

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	7.92mm *(0.312")*
Washer diameter	9.40mm *(0.370")*
Mounting Torque	0.6Nm *(5.31lbf in)* max. if using nut 0.3Nm *(2.65lbf in)* max. into tapped hole
Mounting Hole Diameter	5.7mm ±0.1 *(0.224" ±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
*SFBDC5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	4
SFBDC5000150ZC	15pF -20% / +80%				-	-	-	-	-	7
SFBDC5000220ZC	22pF -20% / +80%				-	-	-	-	-	10
SFBDC5000330ZC	33pF -20% / +80%				-	-	-	-	-	12
*SFBDC5000470ZC	47pF -20% / +80%				-	-	-	-	1	15
*SFBDC5000680MC	68pF				-	-	-	-	2	18
*SFBDC5000101MC	100pF				-	-	-	-	4	22
SFBDC5000151MC	150pF				-	-	-	-	7	25
*SFBDC5000221MC	220pF				-	-	-	-	10	29
*SFBDC5000331MC	330pF				-	-	-	-	13	33
*SFBDC5000471MX	470pF	†X7R			-	-	-	1	16	35
SFBDC5000681MX	680pF				-	-	-	2	19	36
*SFBDC5000102MX	1.0nF	X7R			-	-	-	4	23	41
SFBDC5000152MX	1.5nF				-	-	-	7	26	45
*SFBDC5000222MX	2.2nF				-	-	-	10	30	50
SFBDC5000332MX	3.3nF				-	-	-	13	33	52
*SFBDC5000472MX	4.7nF				-	-	1	16	36	55
SFBDC5000682MX	6.8nF				-	-	2	19	39	57
*SFBDC5000103MX	10nF				-	-	4	22	41	60
*SFBDC5000153MX	15nF				-	-	7	25	44	62
*SFBDC5000223MX	22nF				-	-	10	29	46	65
SFBDC5000333MX	33nF				-	-	13	33	48	68
*SFBDC2000473MX	47nF		200	500	-	1	16	35	50	70
SFBDC2000683MX	68nF				-	2	19	39	54	>70
*SFBDC1000104MX	100nF		100	250	-	4	22	41	57	>70
*SFBDC0500154MX	150nF		50	125	-	7	25	45	60	>70

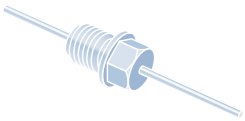
Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

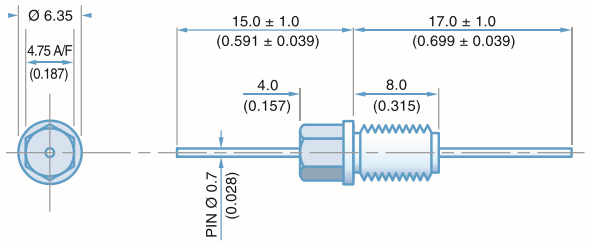
Ordering Information - SFBDC range

SF	B	D	C	500	0101	M	C	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Hardware
Syfer Filter	4.75mm Hex Head	12-32 UNEF	**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.

SFBDL

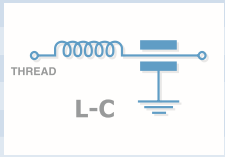




12-32 UNEF Class 2A Thread
4.75mm Hexagonal Head/6.35mm flange

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	7.92mm *(0.312")*
Washer diameter	9.40mm *(0.370")*
Mounting Torque	0.6Nm *(5.31lbf in)* max. if using nut 0.3Nm *(2.65lbf in)* max. into tapped hole
Mounting Hole Diameter	5.7mm ±0.1 *(0.224" ±0.004")*
Max. Panel Thickness	4.9mm *(0.193")*
Weight (Typical)	1.5g *(0.05oz)*
Finish	Silver plate on copper undercoat

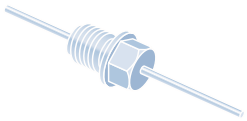
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBDL5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	6
SFBDL5000150ZC	15pF -20% / +80%				-	-	-	-	-	9
SFBDL5000220ZC	22pF -20% / +80%				-	-	-	-	-	12
SFBDL5000330ZC	33pF -20% / +80%				-	-	-	-	1	15
*SFBDL5000470ZC	47pF -20% / +80%				-	-	-	-	2	19
*SFBDL5000680MC	68pF				-	-	-	-	4	20
*SFBDL5000101MC	100pF				-	-	-	-	7	24
SFBDL5000151MC	150pF				-	-	-	-	10	27
*SFBDL5000221MC	220pF				-	-	-	-	12	30
*SFBDL5000331MC	330pF				-	-	-	1	16	34
*SFBDL5000471MX	470pF	†X7R			-	-	-	2	19	38
SFBDL5000681MX	680pF				-	-	-	3	22	41
*SFBDL5000102MX	1.0nF	X7R			-	-	-	6	25	44
SFBDL5000152MX	1.5nF				-	-	-	9	29	48
*SFBDL5000222MX	2.2nF				-	-	-	12	31	51
SFBDL5000332MX	3.3nF				-	-	-	15	35	54
*SFBDL5000472MX	4.7nF				-	-	1	18	39	57
SFBDL5000682MX	6.8nF				-	-	2	21	41	60
*SFBDL5000103MX	10nF				-	-	4	23	43	63
*SFBDL5000153MX	15nF				-	-	7	27	46	66
*SFBDL5000223MX	22nF				-	-	10	30	48	68
SFBDL5000333MX	33nF				-	-	13	34	50	70
*SFBDL2000473MX	47nF		200	500	-	1	17	37	51	>70
SFBDL2000683MX	68nF				-	2	20	40	55	>70
*SFBDL1000104MX	100nF		100	250	-	4	22	44	60	>70
*SFBDL0500154MX	150nF		50	125	-	7	25	47	62	>70

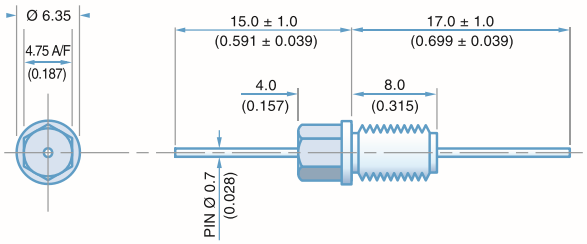
Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

Ordering Information - SFBDL range

SF	B	D	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	12-32 UNEF	**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.

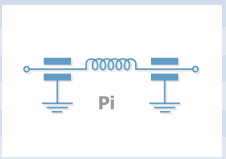




12-32 UNEF Class 2A Thread
4.75mm Hexagonal Head/6.35mm flange

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	7.92mm *(0.312")*
Washer diameter	9.40mm *(0.370")*
Mounting Torque	0.6Nm *(5.31lbf in)* max. if using nut 0.3Nm *(2.65lbf in)* max. into tapped hole
Mounting Hole Diameter	5.7mm ±0.1 *(0.224" ±0.004")*
Max. Panel Thickness	4.9mm *(0.193")*
Weight (Typical)	1.5g *(0.05oz)*
Finish	Silver plate on copper undercoat

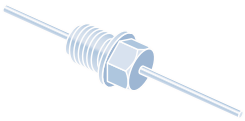
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFBDP5000200ZC	20pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	1	11
SFBDP5000300ZC	30pF -20% / +80%				-	-	-	-	2	15
SFBDP5000440ZC	44pF -20% / +80%				-	-	-	-	3	19
SFBDP5000660ZC	66pF -20% / +80%				-	-	-	-	4	23
*SFBDP5000940ZC	94pF -20% / +80%				-	-	-	-	6	29
*SFBDP500136PMC	136pF				-	-	-	-	8	35
*SFBDP5000201MC	200pF				-	-	-	-	11	41
SFBDP5000301MC	300pF				-	-	-	1	15	50
*SFBDP5000441MC	440pF				-	-	-	2	20	57
*SFBDP5000661MC	660pF				-	-	-	3	25	65
*SFBDP5000941MX	940pF	X7R			-	-	-	5	31	68
SFBDP5001N36MX	1.36nF				-	-	-	7	37	>70
*SFBDP5000202MX	2nF				-	-	-	10	44	>70
SFBDP5000302MX	3nF				-	-	-	13	51	>70
*SFBDP5000442MX	4.4nF				-	-	1	17	59	>70
SFBDP5000662MX	6.6nF				-	-	2	21	64	>70
*SFBDP5000942MX	9.4nF				-	-	4	27	68	>70
SFBDP50013N6MX	13.6nF				-	-	6	34	>70	>70
*SFBDP5000203MX	20nF				-	-	9	40	>70	>70
*SFBDP5000303MX	30nF				-	-	13	48	>70	>70
*SFBDP5000443MX	44nF				-	1	14	54	>70	>70
SFBDP5000663MX	66nF				-	2	17	63	>70	>70
*SFBDP2000943MX	94nF		200	500	-	4	18	68	>70	>70
SFBDP200136NMX	136nF				-	8	25	>70	>70	>70
*SFBDP1000204MX	200nF		100	250	-	10	27	>70	>70	>70
*SFBDP0500304MX	300nF		50	125	-	13	30	>70	>70	>70

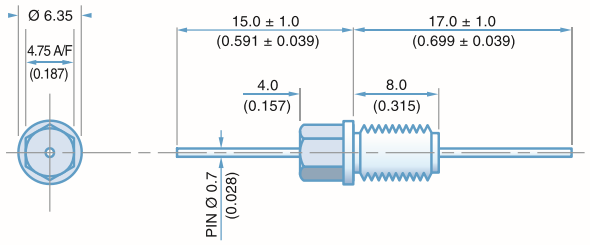
Also rated for operation at 115Vac 400Hz. Self heating will occur - evaluation in situ recommended. * Recommended values. † Also available in C0G/NP0.

Ordering Information - SFBDP range

SF	B	D	P	200	0943	M	X	0
Type	**Case style**	**Thread**	**Electrical configuration**	**Voltage (dc)**	**Capacitance in picofarads (pF)**	**Tolerance**	**Dielectric**	**Hardware**
Syfer Filter	4.75mm Hex Head	12-32 UNEF	**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 **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.

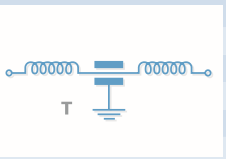




12-32 UNEF Class 2A Thread
4.75mm Hexagonal Head/6.35mm flange

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	7.92mm *(0.312")*
Washer diameter	9.40mm *(0.370")*
Mounting Torque	0.6Nm *(5.31lbf in)* max. if using nut 0.3Nm *(2.65lbf in)* max. into tapped hole
Mounting Hole Diameter	5.7mm ±0.1 *(0.224" ±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
*SFBDT5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	9
SFBDT5000150ZC	15pF -20% / +80%				-	-	-	-	-	11
SFBDT5000220ZC	22pF -20% / +80%				-	-	-	-	1	14
SFBDT5000330ZC	33pF -20% / +80%				-	-	-	-	2	18
*SFBDT5000470ZC	47pF -20% / +80%				-	-	-	-	4	20
*SFBDT5000680MC	68pF				-	-	-	-	6	23
*SFBDT5000101MC	100pF				-	-	-	-	9	27
SFBDT5000151MC	150pF				-	-	-	-	12	30
*SFBDT5000221MC	220pF				-	-	-	-	15	33
*SFBDT5000331MC	330pF				-	-	-	1	19	36
*SFBDT5000471MX	470pF	†X7R			-	-	-	2	21	40
SFBDT5000681MX	680pF				-	-	-	4	24	43
*SFBDT5000102MX	1.0nF	X7R			-	-	-	7	28	47
SFBDT5000152MX	1.5nF				-	-	-	10	30	50
*SFBDT5000222MX	2.2nF				-	-	-	13	34	53
SFBDT5000332MX	3.3nF				-	-	-	17	38	57
*SFBDT5000472MX	4.7nF				-	-	-	19	40	59
SFBDT5000682MX	6.8nF				-	-	1	23	43	63
*SFBDT5000103MX	10nF				-	-	4	26	45	66
*SFBDT5000153MX	15nF				-	-	7	29	47	68
*SFBDT5000223MX	22nF				-	-	10	33	49	70
SFBDT5000333MX	33nF				-	-	14	36	50	>70
*SFBDT2000473MX	47nF		200	500	-	1	17	39	52	>70
SFBDT2000683MX	68nF				-	2	20	42	57	>70
*SFBDT1000104MX	100nF		100	250	-	4	22	46	62	>70
*SFBDT0500154MX	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 - SFBDT range

SF	B	D	T	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	12-32 UNEF	**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 **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.

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