

M3.5 x 0.6 - 6g Thread 4.0mm Hexagonal Head

SUFFIX	A	L1	L2
NONE	6.00	15.0	17.0
/0022	3.50	7.20	7.50

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)	4.0mm (0.157")
Nut A/F	4.75mm (0.187")
Washer diameter	6.9mm (0.272")
Mounting Torque	0.35Nm (3.09lbf in) max. if using nut 0.18Nm (1.59lbf in) max. into tapped hole
Mounting Hole Diameter	3.7mm ±0.1 (0.146" ±0.004")
Max. Panel Thickness	3.25mm (0.128")
Weight (Typical)	0.6g (0.02oz)
Finish	Silver plate on copper undercoat

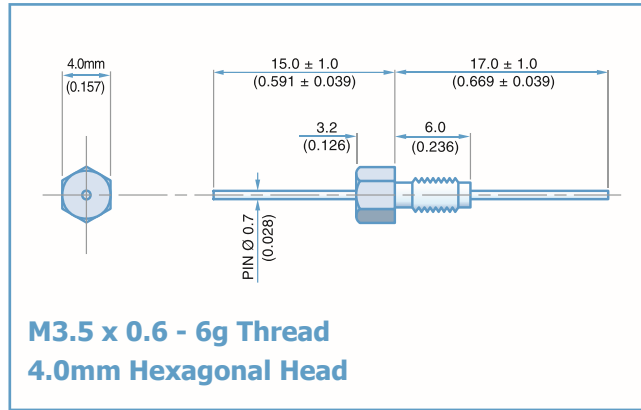
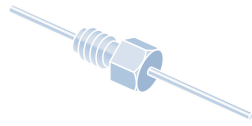
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)								
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz			
*SFAKC5000100ZC	10pF -20% / +80%	C0G/NP0	500#	750	-	-	-	-	-	4			
SFAKC5000150ZC	15pF -20% / +80%				-	-	-	-	-	7			
SFAKC5000220ZC	22pF -20% / +80%				-	-	-	-	-	10			
SFAKC5000330ZC	33pF -20% / +80%				-	-	-	-	-	12			
*SFAKC5000470ZC	47pF -20% / +80%				-	-	-	-	1	15			
*SFAKC5000680MC	68pF				-	-	-	-	2	18			
*SFAKC5000101MC	100pF				-	-	-	-	4	22			
SFAKC5000151MC	150pF				-	-	-	-	7	25			
*SFAKC5000221MC	220pF				-	-	-	-	10	29			
*SFAKC5000331MC	330pF				-	-	-	-	13	33			
*SFAKC5000471MX	470pF	†X7R			500#	750	-	-	-	1	16	35	
SFAKC5000681MX	680pF	-					-	-	2	19	36		
*SFAKC5000102MX	1.0nF	X7R					-	-	-	4	23	41	
SFAKC5000152MX	1.5nF						-	-	-	7	26	45	
*SFAKC5000222MX	2.2nF						-	-	-	10	30	50	
SFAKC5000332MX	3.3nF						-	-	-	13	33	52	
*SFAKC5000472MX	4.7nF						-	-	1	16	36	55	
*SFAKC5000682MX	6.8nF						-	-	2	19	39	57	
*SFAKC5000103MX	10nF						-	-	4	22	41	60	
*SFAKC5000153MX	15nF						-	-	7	25	44	62	
*SFAKC5000223MX	22nF						-	-	10	29	46	65	
SFAKC5000333MX	33nF						-	-	13	33	48	68	
*SFAKC2000473MX	47nF	200	500	-			1	16	35	50	70		
SFAKC2000683MX	68nF			-			2	19	39	54	>70		
*SFAKC1000104MX	100nF			100			250	-	4	22	41	57	>70
*SFAKC0500154MX	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 - SFAKC range

SF	A	K	C	500	0680	M	C	0	/0022
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Hardware	Suffix
Syfer Filter	4.0mm Hex Head	M3.5	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	/0022 = short thread & lead length (see drawing)

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)	4.0mm (0.157")
Nut A/F	4.75mm (0.187")
Washer diameter	6.9mm (0.272")
Mounting Torque	0.35Nm (3.09lbf in) max. if using nut 0.18Nm (1.59lbf in) max. into tapped hole
Mounting Hole Diameter	3.7mm ±0.1 (0.146" ±0.004")
Max. Panel Thickness	3.25mm (0.128")
Weight (Typical)	0.6g (0.02oz)
Finish	Silver plate on copper undercoat

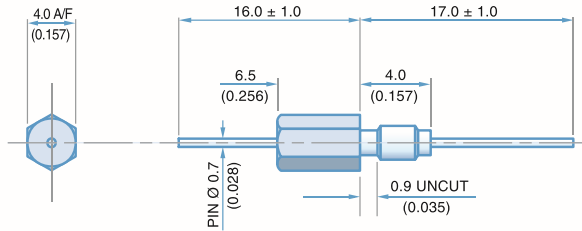
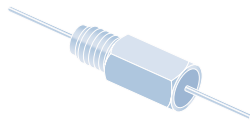
Product Code	Capacitance (±20%) UOS	Dielectric	Rated Voltage (Vdc)	DWV (Vdc)	Typical No-Load Insertion Loss (dB)					
					0.01MHz	0.1MHz	1MHz	10MHz	100MHz	1GHz
*SFAKL5000100ZC	10pF -20% / +80%	COG/NP0	500#	750	-	-	-	-	-	6
SFAKL5000150ZC	15pF -20% / +80%				-	-	-	-	-	9
SFAKL5000220ZC	22pF -20% / +80%				-	-	-	-	-	12
SFAKL5000330ZC	33pF -20% / +80%				-	-	-	-	1	15
*SFAKL5000470ZC	47pF -20% / +80%				-	-	-	-	2	19
*SFAKL5000680MC	68pF				-	-	-	-	4	20
*SFAKL5000101MC	100pF				-	-	-	-	7	24
SFAKL5000151MC	150pF				-	-	-	-	10	27
*SFAKL5000221MC	220pF				-	-	-	-	12	30
*SFAKL5000331MC	330pF				-	-	-	1	16	34
*SFAKL5000471MX	470pF	†X7R			-	-	-	2	19	38
SFAKL5000681MX	680pF				-	-	-	3	22	41
*SFAKL5000102MX	1.0nF	X7R			-	-	-	6	25	44
SFAKL5000152MX	1.5nF				-	-	-	9	29	48
*SFAKL5000222MX	2.2nF				-	-	-	12	31	51
SFAKL5000332MX	3.3nF				-	-	-	15	35	54
*SFAKL5000472MX	4.7nF				-	-	1	18	39	57
SFAKL5000682MX	6.8nF				-	-	2	21	41	60
*SFAKL5000103MX	10nF				-	-	4	23	43	63
*SFAKL5000153MX	15nF				-	-	7	27	46	66
*SFAKL5000223MX	22nF				-	-	10	30	48	68
SFAKL5000333MX	33nF				-	-	13	34	50	70
*SFAKL2000473MX	47nF		200	500	-	1	17	37	51	>70
SFAKL2000683MX	68nF		-	2	20	40	55	>70		
SFAKL1000104MX	100nF		100	250	-	4	22	44	60	>70
SFAKL0500154MX	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/NP0.

Ordering Information - SFAKL range

SF	A	K	L	100	0104	M	X	1
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Hardware
Syfer Filter	4.0mm Hex Head	M3.5	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/NP0 X = X7R	0 = Without 1 = With

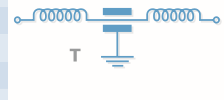
Note: The addition of a 4-digit numerical suffix code can be used to denote changes to the standard part.
Options include for example: change of finish / alternative voltage rating / non-standard intermediate capacitance values / test requirements. Please refer specific requests to the factory.



M3.5 x 0.6 - 6g Thread 4.0mm Hexagonal Head

Electrical Details

Electrical Configuration	T Filter
Capacitance Measurement	@ 1000hr Point
Current Rating	10A
Insulation Resistance (IR)	10GΩ or 1000ΩF
Temperature Rating	-55°C to +125°C
Ferrite Inductance (Typical)	100nH



Mechanical Details

Head (A/F)	4.0mm (0.157")
Nut A/F	4.75mm (0.187")
Washer diameter	6.9mm (0.272")
Mounting Torque	0.35Nm (3.09lbf in) max. if using nut 0.18Nm (1.59lbf in) max. into tapped hole
Mounting Hole Diameter	3.7mm ±0.1 (0.146" ±0.004")
Max. Panel Thickness	3.25mm (0.128")
Weight (Typical)	0.6g (0.02oz)
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		
*SFAKT5000100ZC	10pF -20% / +80%	COG/NPO	500#	750	-	-	-	-	-	9		
SFAKT5000150ZC	15pF -20% / +80%				-	-	-	-	-	11		
SFAKT5000220ZC	22pF -20% / +80%				-	-	-	-	1	14		
SFAKT5000330ZC	33pF -20% / +80%				-	-	-	-	2	18		
*SFAKT5000470ZC	47pF -20% / +80%				-	-	-	-	4	20		
*SFAKT5000680MC	68pF				-	-	-	-	6	23		
*SFAKT5000101MC	100pF				-	-	-	-	9	27		
SFAKT5000151MC	150pF				-	-	-	-	12	30		
*SFAKT5000221MC	220pF				-	-	-	-	15	33		
*SFAKT5000331MC	330pF				-	-	-	1	19	36		
*SFAKT5000471MX	470pF	†X7R			-	-	-	2	21	40		
SFAKT5000681MX	680pF	X7R			-	-	-	4	24	43		
*SFAKT5000102MX	1.0nF				-	-	-	7	28	47		
SFAKT5000152MX	1.5nF				-	-	-	10	30	50		
*SFAKT5000222MX	2.2nF				-	-	-	13	34	53		
SFAKT5000332MX	3.3nF				-	-	-	17	38	57		
*SFAKT5000472MX	4.7nF				-	-	-	19	40	59		
SFAKT5000682MX	6.8nF				-	-	1	23	43	63		
*SFAKT5000103MX	10nF				-	-	4	26	45	66		
*SFAKT5000153MX	15nF				-	-	7	29	47	68		
*SFAKT5000223MX	22nF				-	-	10	33	49	70		
SFAKT5000333MX	33nF				-	-	14	36	50	>70		
*SFAKT2000473MX	47nF		200	500	-	1	17	39	52	>70		
SFAKT2000683MX	68nF				-	2	20	42	57	>70		
*SFAKT1000104MX	100nF				100	250	-	4	22	46	62	>70
*SFAKT0500154MX	150nF						-	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 COG/NPO.

Ordering Information - SFAKT range

SF	A	K	T	500	0102	M	X	0
Type	Case style	Thread	Electrical configuration	Voltage (dc)	Capacitance in picofarads (pF)	Tolerance	Dielectric	Hardware
Syfer Filter	4.0mm Hex Head	M3.5	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 = 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.

Mouser Electronics

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Knowles:

<u>SFAKL5000223MX1</u>	<u>SFAKC5000102MX1</u>	<u>SFAKC5000682MX1</u>	<u>SFAKL050154MX1</u>	<u>SFAKL5000103MX1</u>
<u>SFAKC5000101MC1</u>	<u>SFAKC5000332MX1</u>	<u>SFAKL0500473MX0</u>	<u>SFAKL5000681MX0</u>	<u>SFAKC5000330ZC0</u>
<u>SFAKL5000150ZC1</u>	<u>SFAKL0500473MX1</u>	<u>SFAKC5000471MX1</u>	<u>SFAKC5000472MX1</u>	<u>SFAKC0500333MX1</u>
<u>SFAKC5000152MX0</u>	<u>SFAKC5000222MX0</u>	<u>SFAKL5000101MC0</u>	<u>SFAKC5000682MX0</u>	<u>SFAKC5000470ZC1</u>
<u>SFAKL5000332MX0</u>	<u>SFAKC0500473MX0</u>	<u>SFAKL5000680MC1</u>	<u>SFAKC5000151MC0</u>	<u>SFAKL5000152MX1</u>
<u>SFAKL5000331MC1</u>	<u>SFAKL0500333MX0</u>	<u>SFAKC5000150ZC1</u>	<u>SFAKL5000150ZC0</u>	<u>SFAKC2000153MX1</u>
<u>SFAKC5000472MX0</u>	<u>SFAKC1000223MX0</u>	<u>SFAKC2000103MX1</u>	<u>SFAKL5000152MX0</u>	<u>SFAKL5000681MX1</u>
<u>SFAKC5000101MC0</u>	<u>SFAKL5000470ZC0</u>	<u>SFAKC5000220ZC1</u>	<u>SFAKL5000680MC0</u>	<u>SFAKC5000680MC1</u>
<u>SFAKL5000220ZC1</u>	<u>SFAKL5000102MX0</u>	<u>SFAKC5000100ZC0</u>	<u>SFAKL5000471MX1</u>	<u>SFAKL2000103MX0</u>
<u>SFAKC5000221MC0</u>	<u>SFAKL5000100ZC1</u>	<u>SFAKL5000332MX1</u>	<u>SFAKL5000470ZC1</u>	<u>SFAKC5000330ZC1</u>
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<u>SFAKC5000470ZC0</u>	<u>SFAKL5000151MC1</u>	<u>SFAKC5000150ZC0</u>	<u>SFAKL5000222MX0</u>	<u>SFAKL1000223MX1</u>
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<u>SFAKL5000222MX1</u>	<u>SFAKL1000223MX0</u>	<u>SFAKL5000221MC0</u>	<u>SFAKL5000100ZC0</u>	<u>SFAKL5000102MX1</u>
<u>SFAKC5000332MX0</u>	<u>SFAKL0500333MX1</u>	<u>SFAKL5000101MC1</u>	<u>SFAKL5000472MX0</u>	<u>SFAKL2000153MX1</u>
<u>SFAKL5000471MX0</u>	<u>SFAKC5000220ZC0</u>	<u>SFAKL5000472MX1</u>	<u>SFAKL5000221MC1</u>	<u>SFAKC5000102MX0</u>
<u>SFAKL5000330ZC0</u>	<u>SFAKL2000153MX0</u>	<u>SFAKC0500473MX1</u>	<u>SFAKC0500333MX0</u>	<u>SFAKL5000220ZC0</u>