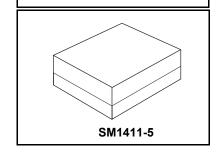


RFM products are now Murata products.

SF2316K-1

1588.655 MHz SAW Filter



• Miniature High Performance SAW Filter

- Low Passband Loss
- Hermetic 1.4 x 1.1 mm Surface-mount Case
- Complies with Directive 2002/95/EC (RoHS)



Absolute Maximum Ratings

Absolute maximum Natings				
Rating	Value	Units		
Maximum Incident Power in Passband	+10	dBm		
Maximum DC Voltage On any Non-ground Terminal	3	VDC		
Component Operating Temperature Range	-40 to +105	°C		
Storage Temperature Range in Tape and Reel	-40 to +105	°C		
Maximum Soldering Temerature Profile (5 cycles maximum)	265 °C	for 10 s		

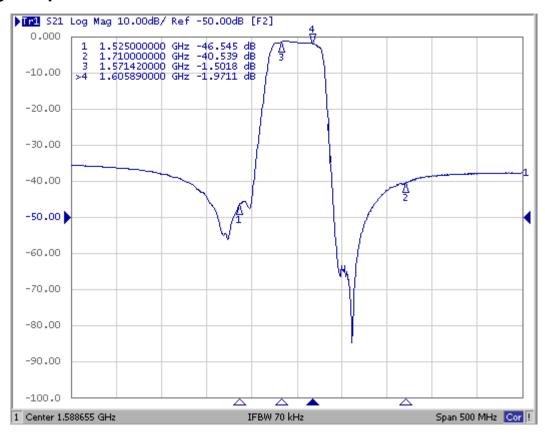
Electrical Characteristics

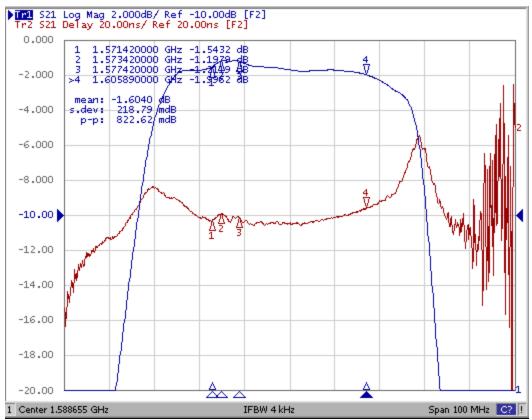
Characteristic	Sym	Notes	Min	Тур	Max	Units	
Center Frequency	f _C		1588.655		MHz		
Insertion Loss, 1573.42 to 1577.42 MHz	IL _{MAX}			1.25	1.90	dB	
Insertion Loss, 1571.42 to 1605.89 MHz				1.85	2.50		
Amplitude Ripple, 1573.42 to 1577.42 MHz				0.25	1.20 dB		
Amplitude Ripple, 1571.42 to 1605.89 MHz				0.80	1.50	ub	
Attenuation							
DC to 824 MHz			32	36			
824 to 849 MHz			32	36			
849 to 880 MHz			32	36			
880 to 915 MHz			32	36		dB	
915 to 1452 MHz			32	36		uБ	
1452 to 1525 MHz			35	39			
1710 to 1785 MHz			35	38			
1785 to 1850 MHz			30	37			
1850 to 6000 MHz			25	37			
I/O VSWR, 1573.42 to 1577.42 MHz				1.9	2.3		
I/O VSWR, 1571.42 to 1605.89 MHz				2.0	2.3		
Temperature Coefficient of Frequency	ppm/°C			-36			
Case Style				SM1411-5			
Lid Symbolization				R			

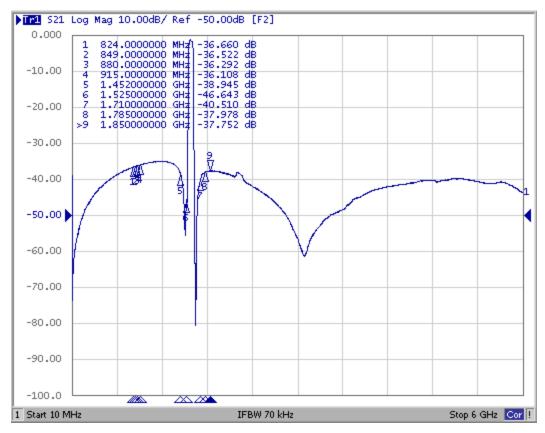
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. **NOTES:**

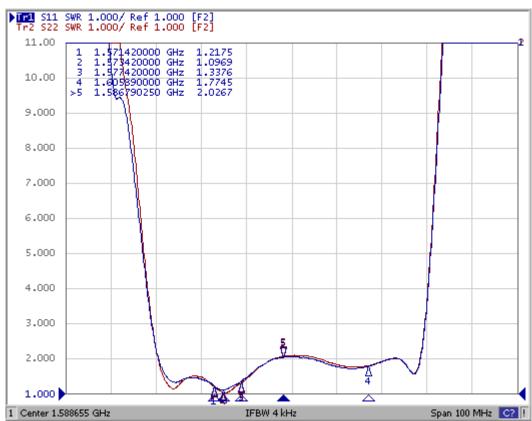
- 1. US and international patents may apply.
- 2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Frequency Response Plots

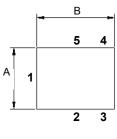


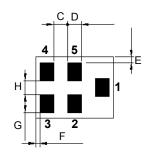




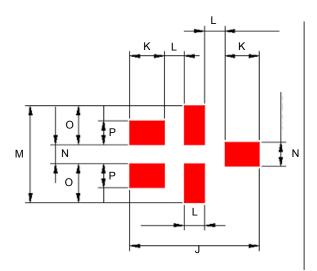


SM1411-5 1.4 X 1.1 mm 5-Terminal Surface-mount Case







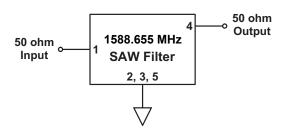


Dimension	mm		Inches			
Dilliension	Min	Nom	Max	Min	Nom	Max
Α	-	1.10	-	-	0.043	-
В	-	1.40	-	-	0.055	-
С	-	0.25	-	-	0.009	-
D	-	0.25	-	-	0.009	-
E	-	0.10	-	-	0.003	-
F	-	0.075	-	-	0.002	-
G	-	0.325	-	-	0.012	-
Н	-	0.25	-	-	0.009	-
ı	-	-	0.700		-	0.027
J	-	1.60	-	-	0.062	-
K	-	0.425	-	-	0.016	-
L	-	0.25	-	-	0.009	-
М	-	1.30	-	-	0.051	-
N	-	0.325	-	-	0.012	-
0	-	0.525	-	-	0.020	-
Р	-	0.325	-	-	0.012	-

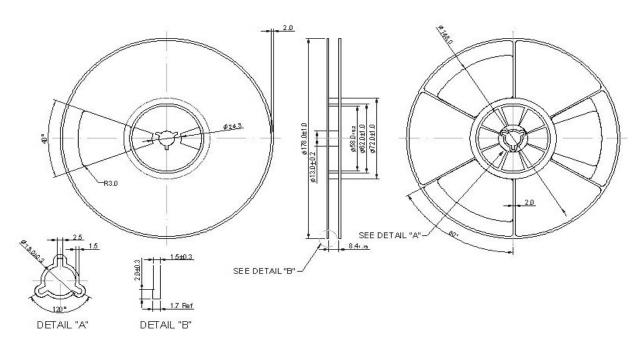
PCB Footprint

Materials				
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel			
Body	Al ₂ O ₃ Ceramic			
Pb Free				

Test Circuit



Reel Dimensions - 7 inch Reel, 3000 Filters



Tape Dimensions

