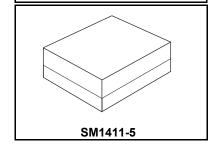
Preliminary



RFM products are now Murata products.

SF2352K-1

403.5 MHz **SAW Filter**



• 403.5 MHz SAW RF Filter

- 3 MHz Bandwidth
- 1.4 x 1.1 mm Surface-mount Case
- Complies with Directive 2002/95/EC (RoHS)

Absolute Maximum Ratings

Rating	Value	Units
Maximum Incident Power in Passband	+17	dBm
Maximum DC Voltage On any Non-ground Terminal	3	VDC
Operating Temperature Range	+0 to +55	°C
Storage Temperature Range in Tape and Reel -20 to +70 °C		°C
Maximum Soldering Temperature Profile (5 cycles maximum)	265 °C for 10 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency at 25°C	f _C			403.50		MHz
Insertion Loss, 402 to 405 MHz	IL		1.0	1.8	3.0	dB
Bandwidth p-1.5dB	BW		3.0	6.3		dB
Amplitude Ripple, 402 to 405 MHz	Δα			0.4	1.5	dB _{P-P}
Input VSWR, 402 to 405 MHz				1.3	2.0	_
Output VSWR, 402 to 405 MHz				1.4	2.0	
Attenuation (relative to IL)						
0.3 to 339.5 MHz			38	49		
339.5 to 358.5 MHz			38	57		
358.5 to 383.5 MHz			37	50		
423.5 to 448.5 MHz			30	37		dB
448.5 to 467.5 MHz	α_{rel}		35	63		ub
467.5 to 500 MHz			35	60		
500 to 700 MHz			33	56		
700 to 1000 MHz			33	47		
1000 to 1210 MHz			35	42		
1210 to 2500 MHz			25	30		
Case		1.4 x 1.1 x 0.59 mm, 5 Terminals				
Lid Symbolization, □ = week character, A-Z and a-z, 52 total characters		9				
Terminating Source Impedance: Single-Ended				50		Ω
Terminating Source Impedance: Single-Ended		_		200		Ω
Temperature Coefficient of Frequency				-36		ppm/°C

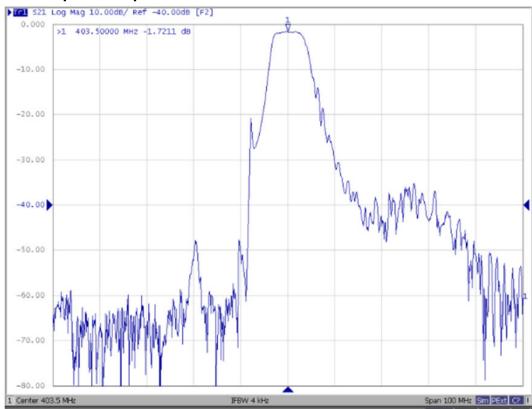
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

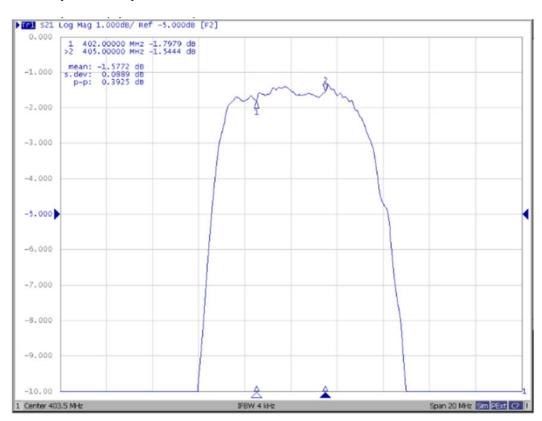
US and international patents may apply.
Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Frequency Response Plots

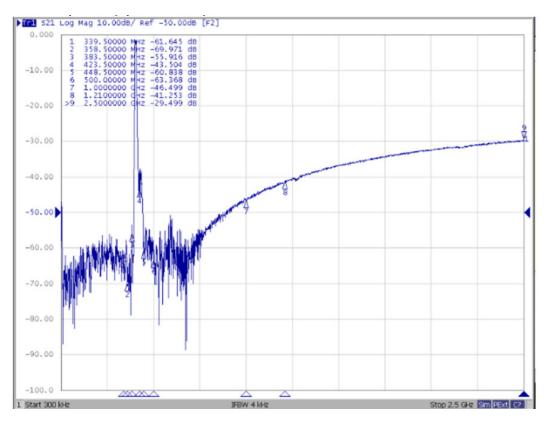
S21 Response - span 100 MHz



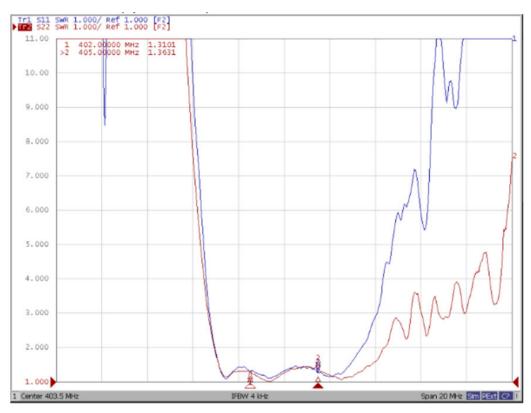
S21 Response - span 20 MHz



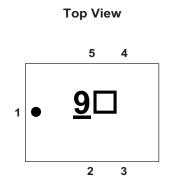
S21 Response - span 2.5 GHz

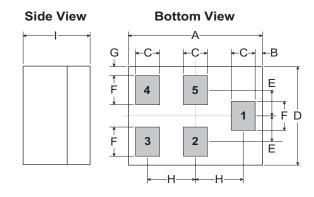


S11 and S22 VSWR - span 20 MHz



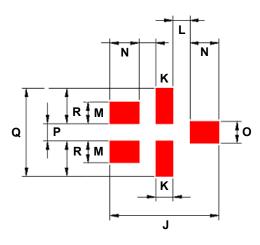
SM1411-51.4X 1.1 mm 5-Terminal Surface-mount Case Drawing





PCB Footprint

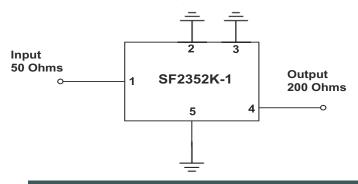




Dimension	mm		Inches			
Dimension	Min	Nom	Max	Min	Nom	Max
Α	1.3500	1.4000	1.4500	0.0531	0.0551	0.0571
В	-	0.0750	-	-	0.0030	-
С	0.1700	0.250	0.3300	0.0067	0.0098	0.0130
D	1.0500	1.1000	1.1500	0.0413	0.0433	0.0453
E	-	0.2875	-	-	0.0113	-
F	0.2450	0.3250	0.4050	0.0096	0.0128	0.0159
G	-	0.100	-	-	0.0039	-
Н	-	0.5000	-	-	0.0196	-
I	-	0.5900	0.650	-	0.0232	0.0255
J	-	1.6000	-	-	0.0629	-
K	-	0.2500	-	-	0.0138	-
L	-	0.2500	-	-	0.0098	-
М	-	0.3250	-	-	0.0127	-
N	-	0.4250	-	-	0.0167	-
0	-	0.3250	-	-	0.0394	-
Р	-	0.2500	-	-	0.0098	-
Q	-	1.3000	-	-	0.0511	-
R	-	0.5250	-	-	0.0206	-

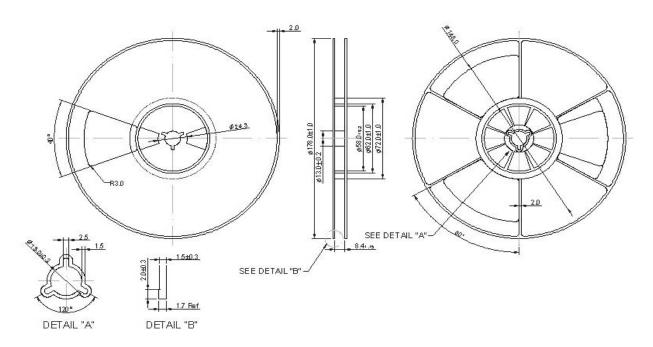
Materials		
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel	
Lid Plating	Plastic molding	
Body	Al ₂ O ₃ Ceramic	
Pb Free		

Test Circuit



Pin Description			
1	Input		
4	Output		
2, 3, 5	Ground		

Reel Dimensions - 7 inch Reel



Tape Dimensions

