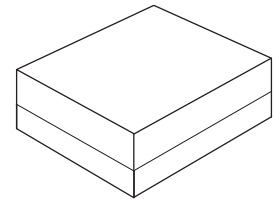


- 403.5 MHz SAW RF Filter
- 5 MHz Bandwidth
- 1.4 x 1.1 mm Surface-mount Case
- Complies with Directive 2002/95/EC (RoHS)



SF2363K

**403.5 MHz
SAW Filter**



SM1411-5

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
Maximum Soldering Temperature Profile (5 cycles maximum)	265 °C for 10 s	

Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency at +25°C	f_c			403.50		MHz
Insertion Loss, 402 to 405 MHz	IL			2.6	4.0	dB
1.5dB Bandwidth	BW		5.0	6.1		dB
Amplitude Ripple, 402 to 405 MHz				0.6	2.0	dB
Input VSWR 402 to 405 MHz				1.6	2.0	MHz
Output VSWR 402 to 405 MHz				1.5	2.0	
Attenuation (relative to IL)	α_{rel}					
DC to 380 MHz			30	58		dB
380 to 398 MHz			15	20		
412 to 430 MHz			20	27		
430 to 2000 MHz			30	62		
Case		1.4 x 1.1 x 0.7 mm, 5 Terminals				
Lid Symbolization, □ = week character, A-Z and a-z, 52 total characters		A				
Terminating Source Impedance: Single-Ended				50		Ω
Terminating Source Impedance: Differential				200		Ω
Temperature Coefficient of Frequency				-36		ppm/°C



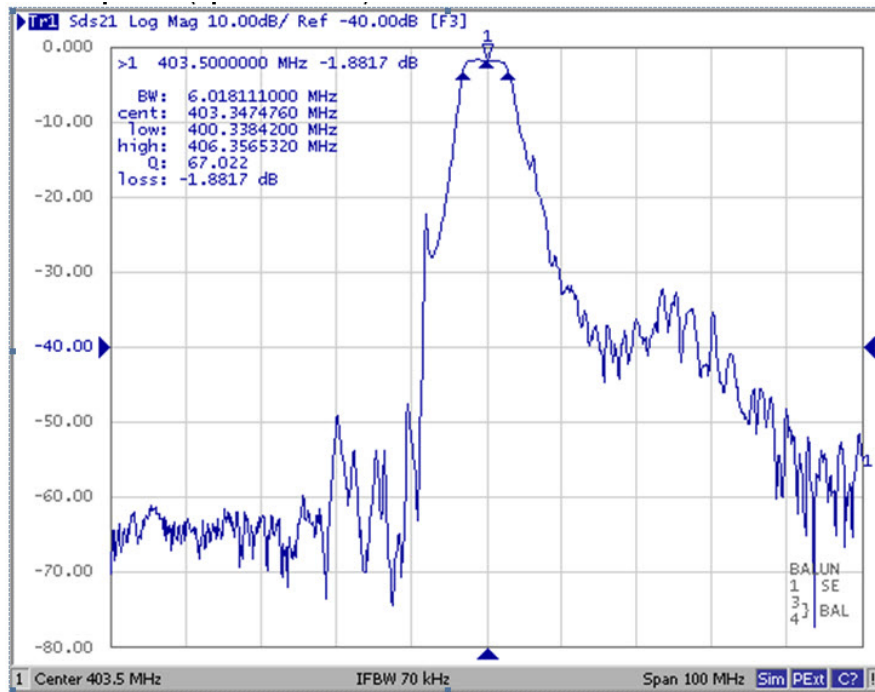
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

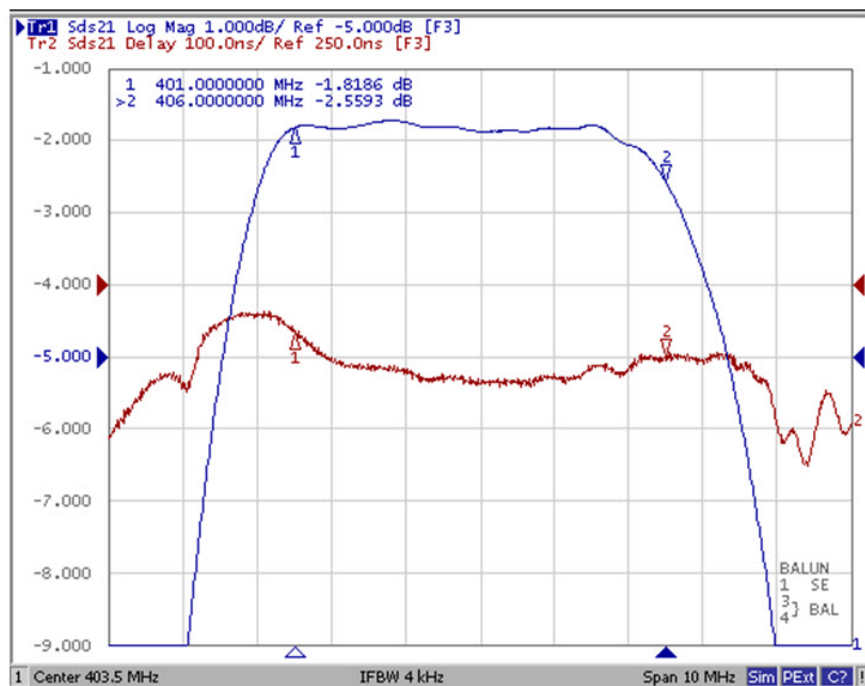
1. US and international patents may apply.
2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

Frequency Response Plots

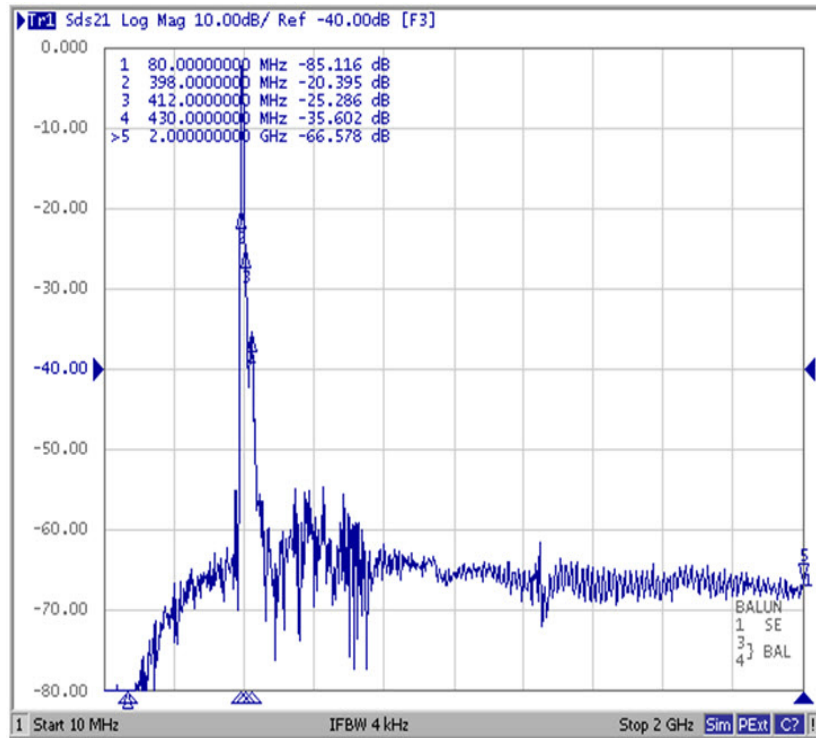
S21 Response - span 100 MHz



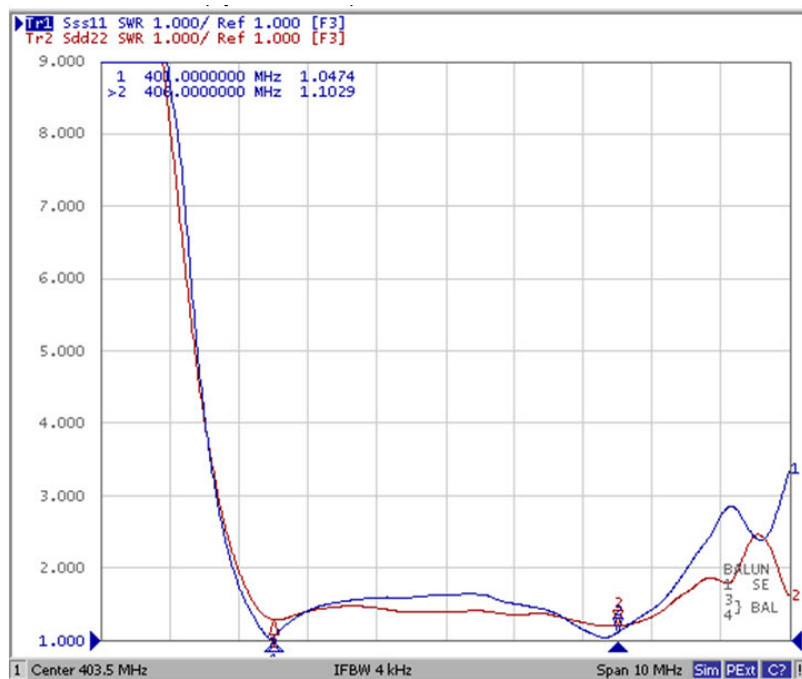
S21 Response - span 10 MHz



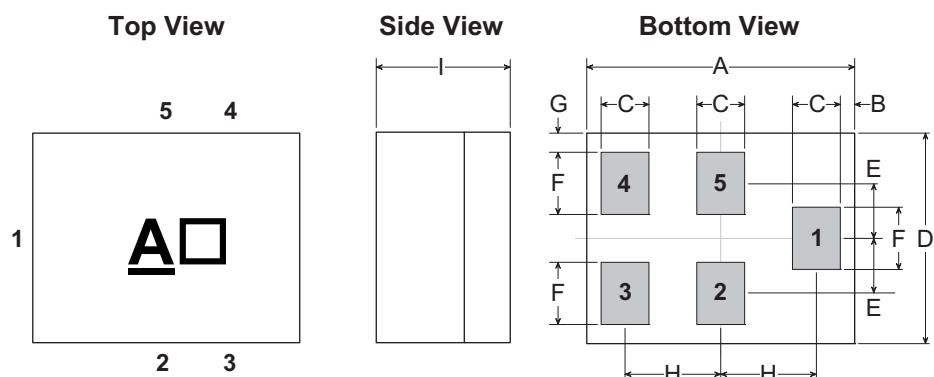
S21 Response - span 2.5 GHz



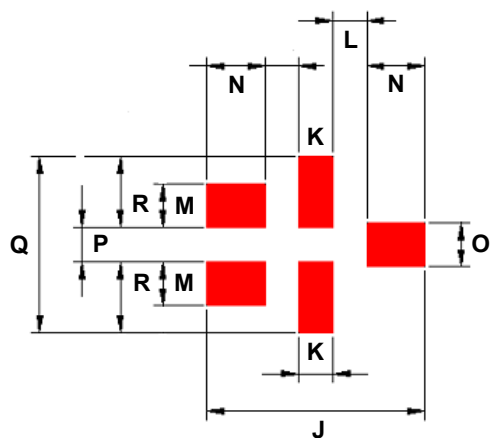
S11 and S22 VSWR - span 10 MHz



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



PCB Footprint



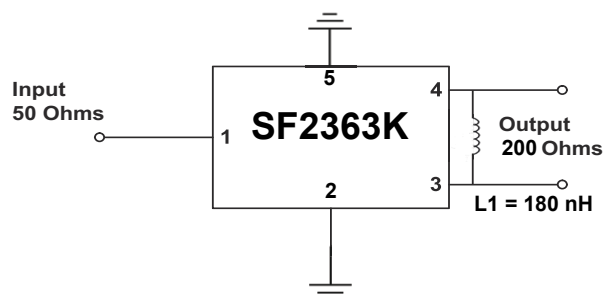
Case and PCB Footprint Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	1.3500	1.4000	1.4500	0.0531	0.0551	0.0571
B	-	0.0750	-	-	0.0030	-
C	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	-
H	-	0.5000	-	-	0.0196	-
I	-	0.5000	0.700	0.0236	0.0256	0.0276
J	-	1.6000	-	-	0.0629	-
K	-	0.2500	-	-	0.0138	-
L	-	0.2500	-	-	0.0098	-
M	-	0.3250	-	-	0.0127	-
N	-	0.4250	-	-	0.0167	-
O	-	0.3250	-	-	0.0394	-
P	-	0.2500	-	-	0.0098	-
Q	-	1.3000	-	-	0.0511	-
R	-	0.5250	-	-	0.0206	-

Materials

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

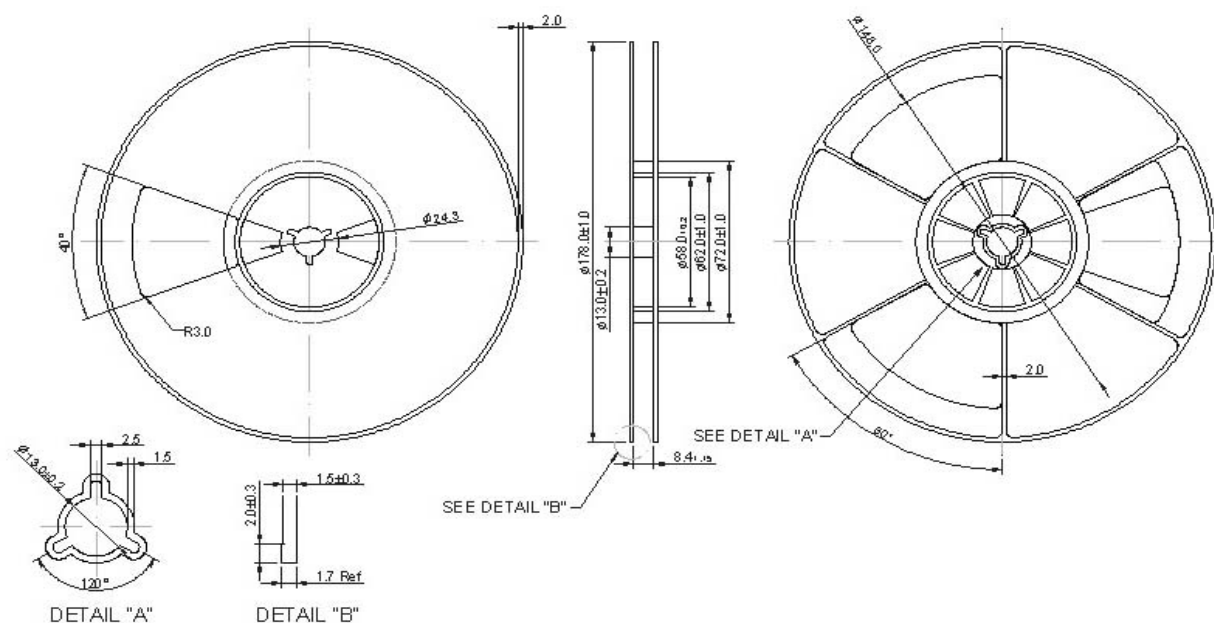
Test Circuit



Pin Description

1	Input
3, 4	Balanced Output
2, 5	Ground

Reel Dimensions - 7 inch Reel, 3000 Filters



Tape Dimensions

