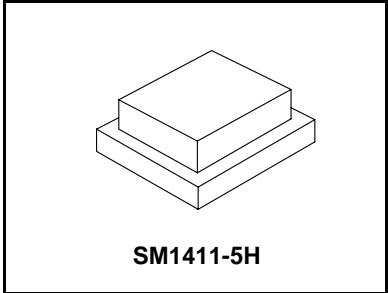




# Preliminary

**SF1220K-1**

**2326.0 MHz  
SAW Filter**



- RF SAW Filter, 2326.0 MHz
- 1.4 x 1.1 x 0.6 mm Surface-Mount Case
- $Z_S = 50 \text{ ohm}$ ,  $Z_L = 100 \text{ ohm}$
- Complies with Directive 2002/95/EC (RoHS)



### Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	+15	dBm
Maximum DC Voltage Between any Two Terminals	3	V
Operating Temperature Range	-40 to +88	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile	265°C for 10 s	

### Electrical Characteristics

Characteristic	Sym	Notes	Min	Typ	Max	Units
Center Frequency	$f_C$		2326.0			MHz
Maximum Insertion Loss, 2319 to 2333 MHz	$IL_{MAX}$			2.6	3.2	dB
Amplitude Ripple, 2319 to 2333 MHz				0.4	1.0	dB <sub>P-P</sub>
Group Delay Ripple, 2319 to 2333 MHz				7.3		ns <sub>P-P</sub>
Group Delay, 2326 MHz				11		ns
VSWR, 2319 to 2333 MHz				1.85:1	2:1	
Return Loss, 2319 to 2333 MHz			6.5	9.6		dB
Source Impedance, Single Ended				50		$\Omega$
Load Impedance, Balanced				100		$\Omega$
Attenuation						
0.3 to 2175 MHz			39	42		dB
2175 to 2227 MHz			25	38		
2400 to 2426 MHz			15	29		
2426 to 2526 MHz			35	42		
2526 to 2700 MHz			40	44		

Case Style	1.4 x 1.1 x 0.6 mm
Lid Symbolization ( Y=year, W=week)	TBD

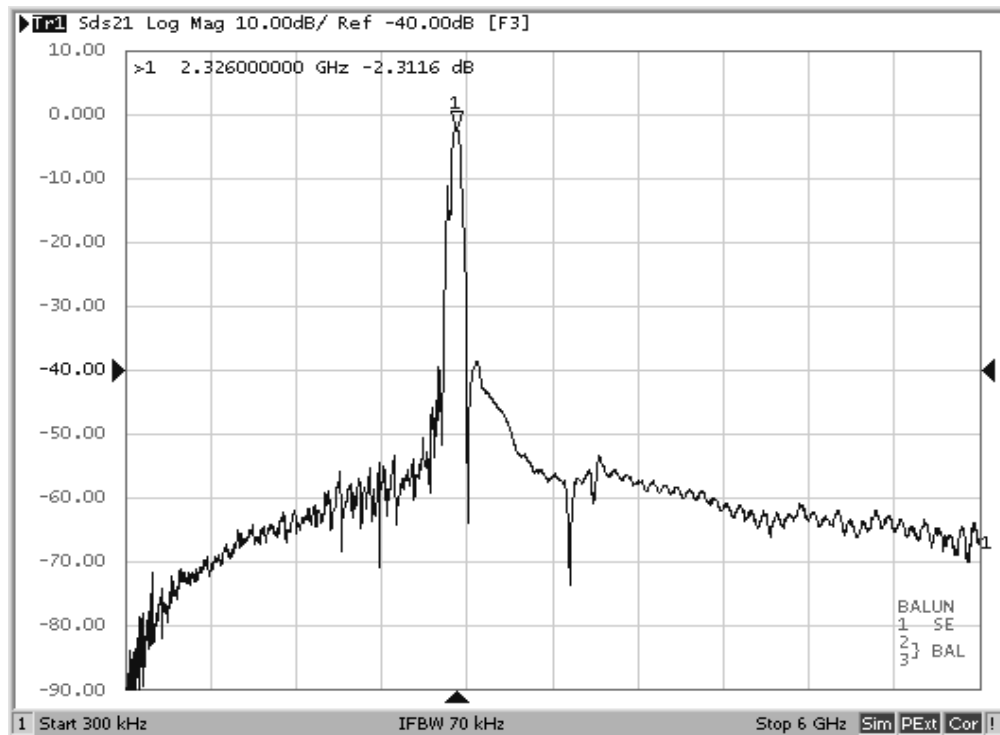


**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

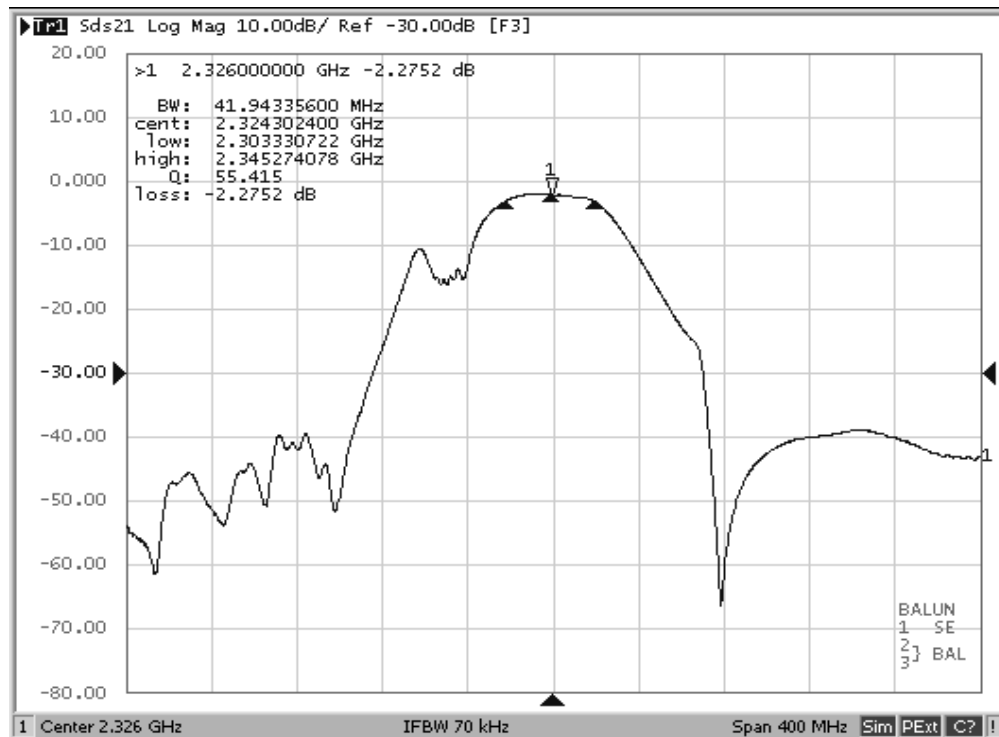
#### Notes:

1. US and international patents may apply.
2. RFM, stylized RFM logo, and RF Monolithics, Inc. are registered trademarks of RF Monolithics, Inc.

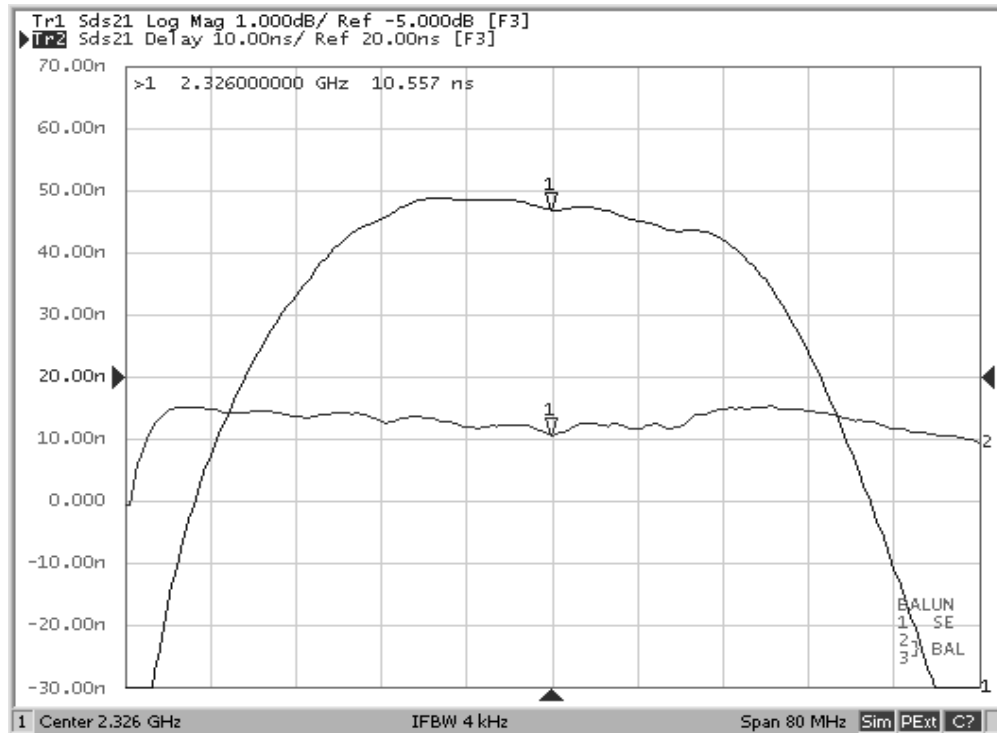
## Filter Amplitude Response, 300 kHz to 6000 MHz:



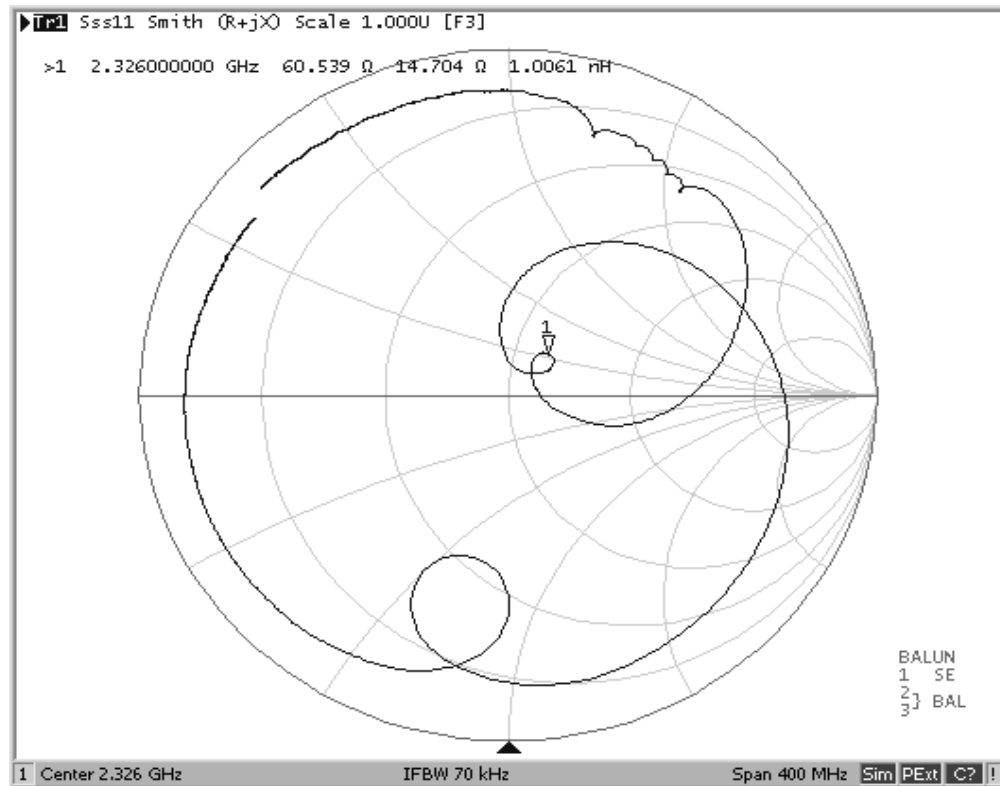
## Filter Amplitude Response, 2126 to 2526 MHz:



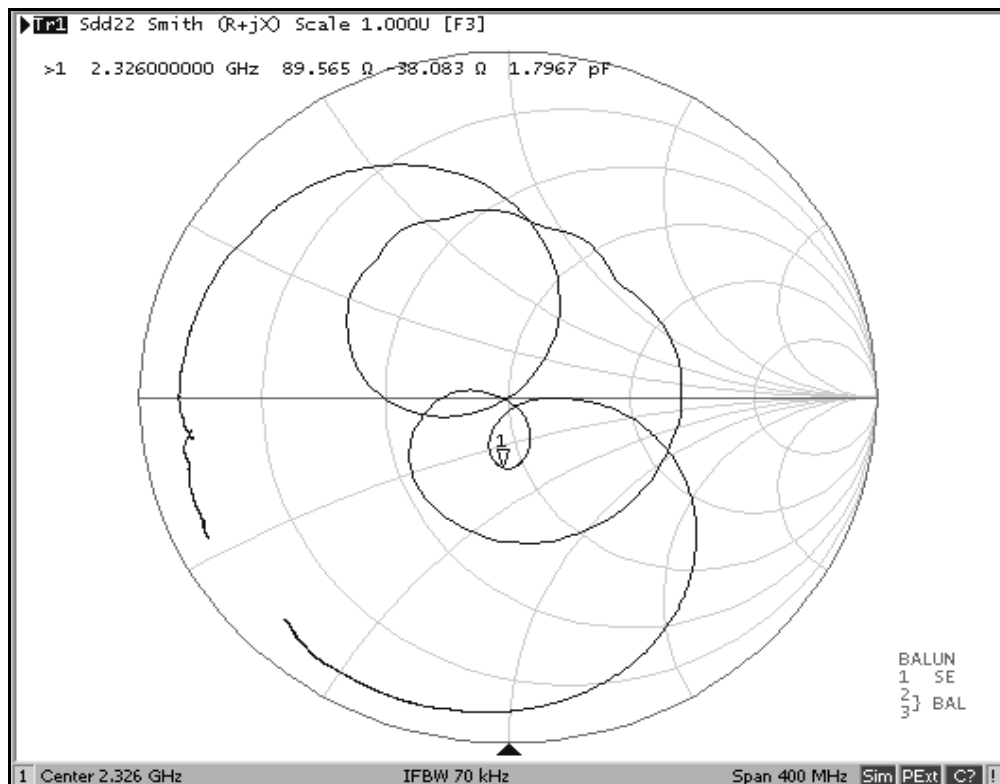
## Passband Amplitude and Group Delay Response:



## S<sub>11</sub> Smith Chart Plot:



## S<sub>22</sub> Smith Chart Plot:

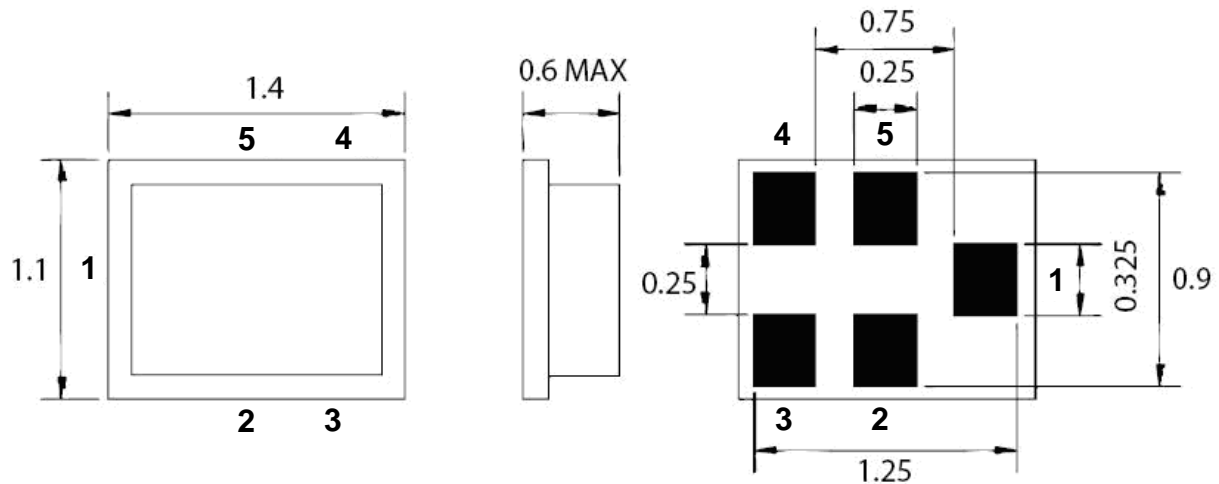


# SM1411-5H Case

## 5 Terminal Surface-Mount Case 1.4 X 1.1 mm Nominal Footprint

### Electrical Connections

Connection	Terminals
Input	1
Output	3, 4
Ground	2, 5



Dimensions in mm

### Test Configuration

