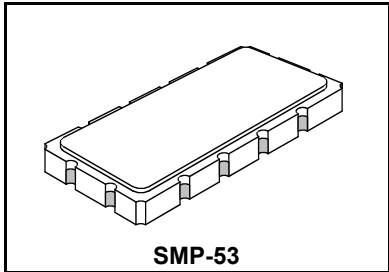


- **Excellent Size-to-Performance Ratio**
- **Hermetic 13.3 x 6.5 mm Surface-mount Case**
- **Complies with Directive 2002/95/EC (RoHS)**



**SF2064A**

**156 MHz  
SAW Filter**



**Absolute Maximum Ratings**

Rating	Value	Units
Maximum Incident Power in Passband	+10	dBm
Max. DC voltage between any 2 terminals	30	VDC
Storage Temperature Range	-40 to +85	°C
Suitable for lead-free soldering - Max. Soldering Profile	260°C for 30 s	

Characteristic	Sym	Notes	Min	Typ	Max	Units
Nominal Center Frequency	$f_C$	1		156.000		MHz
Insertion Loss CPK>1.33				15	18	dB
Passband -1dB Pass Bandwidth Definition -3dB Pass Bandwidth Definition -40dB Pass Bandwidth Definition Amplitude Ripple	$BW_1$		10	10.8		MHz
	$BW_3$		10.6	11		
	$BW_{40}$			13.15	15	
Stopband Rejection 0~110MHz 250MHz~1GHz			45	55		dB
Group Delay Variation (Pass Bandwidth)				30	100	Nsp-p
Absolute Delay at $f_0$				1.13	1.5	usec
Temperature Coefficient of Frequency				-35	-40	ppm/°C
Source Impedance				50		ohm
Input VSWR				1.1		
Output VSWR				1.7		
Operating Temperature Range	$T_A$		-40		+85	°C

Impedance Matching to 50Ω Unbalanced	External L-C
Case Style	SMP-53 13.3 x 6.5 mm Nominal Footprint
Lid Symbolization (YY = year, WW = week)	RFM SF2064A YYWW

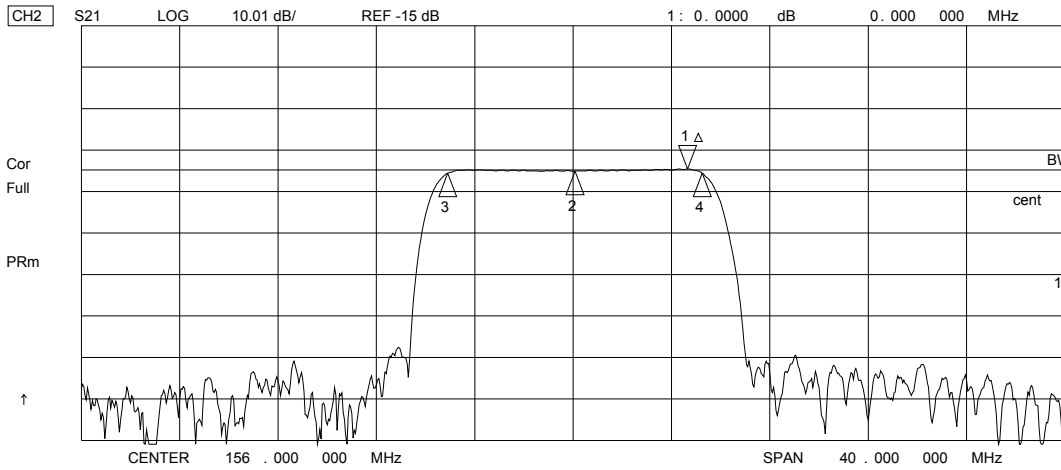
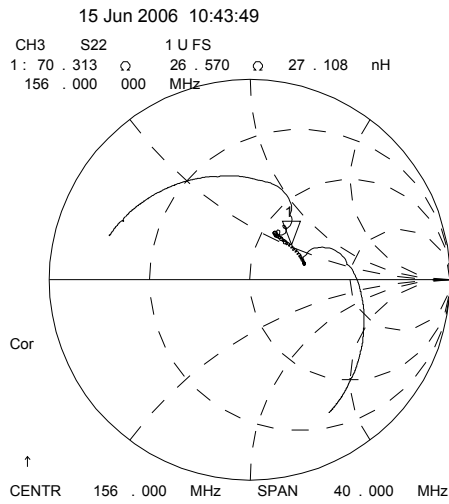
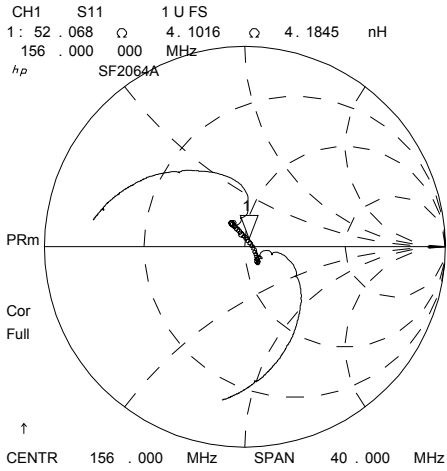
**NOTES:**

1. Unless noted otherwise, all specifications apply over the operating temperature range with filter soldered to the specified demonstration board with impedance matching to 50 Ω and measured with 50 Ω network analyzer.
2. Unless noted otherwise, all frequency specifications are referenced to the nominal center frequency,  $f_c$ .
3. The design, manufacturing process, and specifications of this filter are subject to change.
4. US and international patents may apply.
5. Electrostatic Sensitive Device. Observe precautions for handling.



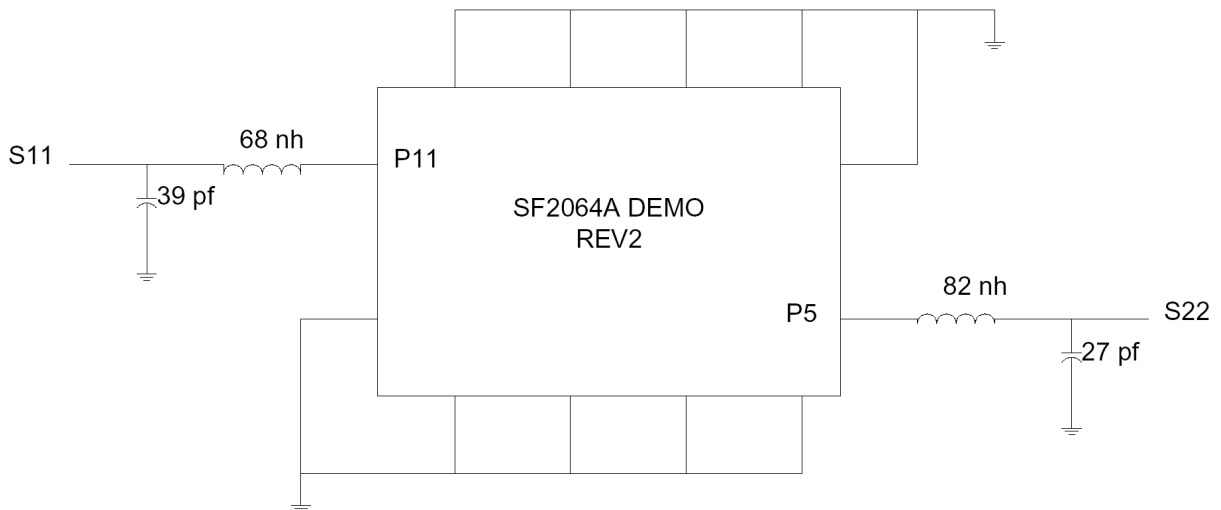
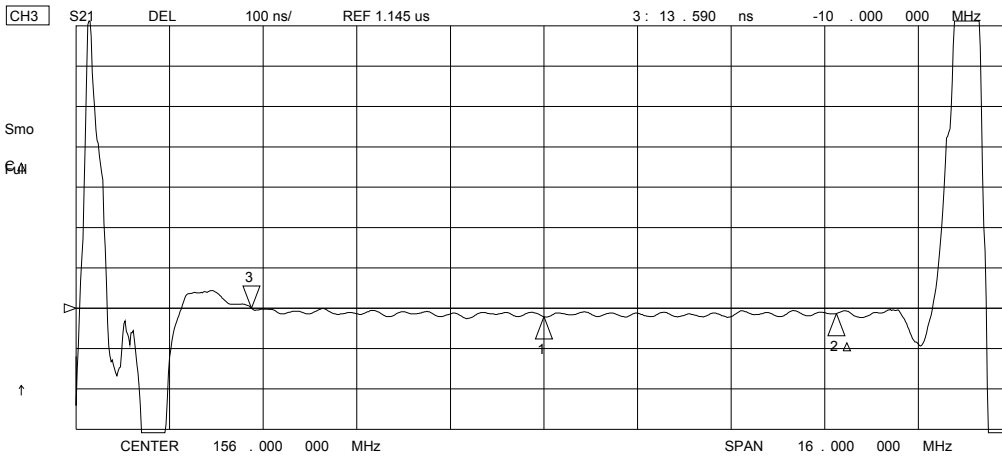
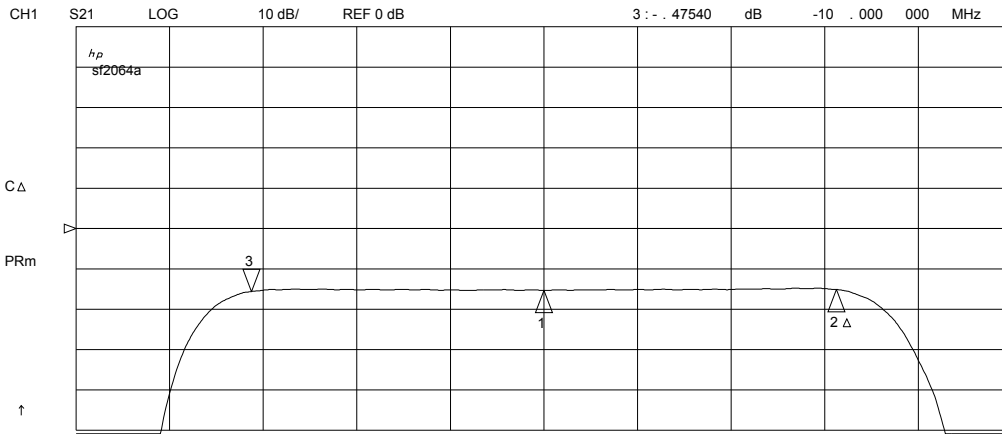
**Electrical Connections**

Connection	Terminals
Port 1 Hot	11
Port 1 Gnd Return	12
Port 2 Hot	5
Port 2 Gnd Return	6
Case Ground	All others



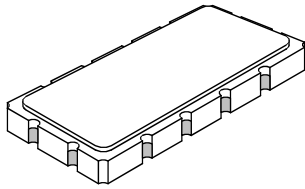
CH2 Markers  
 Max Δ REF=1  
 BW: 10.343005 MHz  
 cent: 156.073837 MHz  
 Q: 15.090  
 1\_loss: -14.778 dB

15 Jun 2006 10:47:08



# SMP-53 Case

## 12-Terminal Ceramic Surface-Mount Case 13.3 x 6.5 mm Nominal Footprint



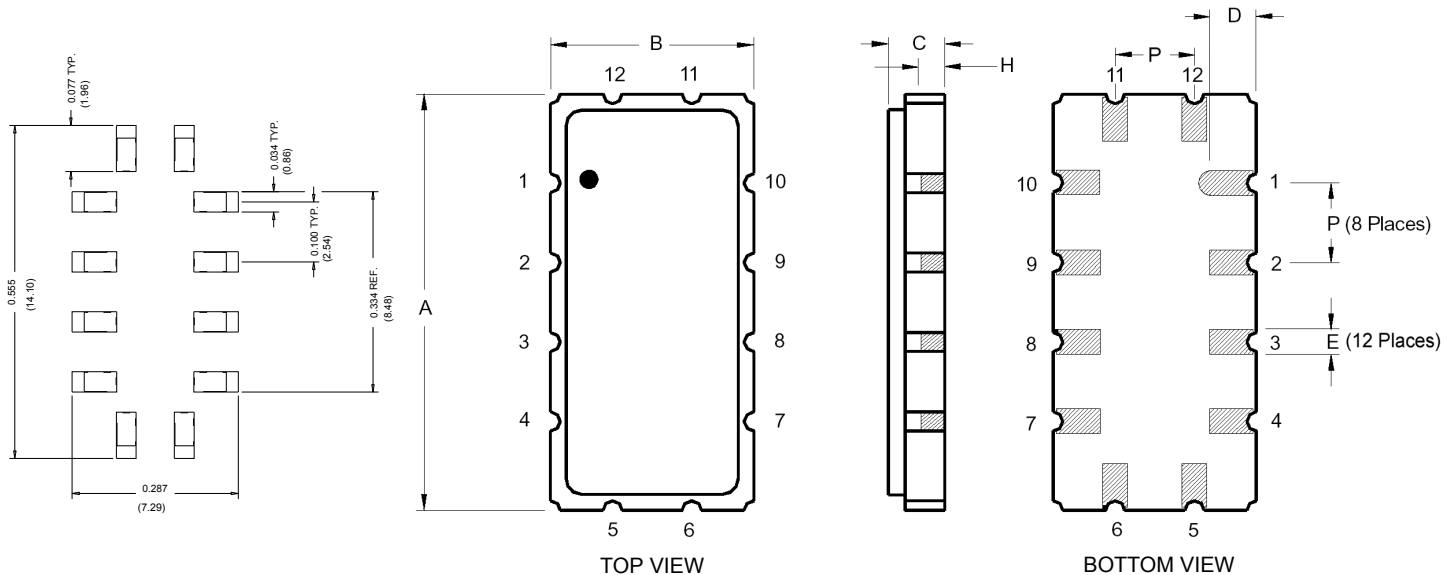
### Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	13.08	13.31	13.60	0.515	0.524	0.535
B	6.27	6.50	6.80	0.247	0.256	0.268
C		1.91	2.00		0.075	0.079
D		1.50			0.059	
E		0.79			0.031	
H		1.0			0.039	
P		2.54			0.100	

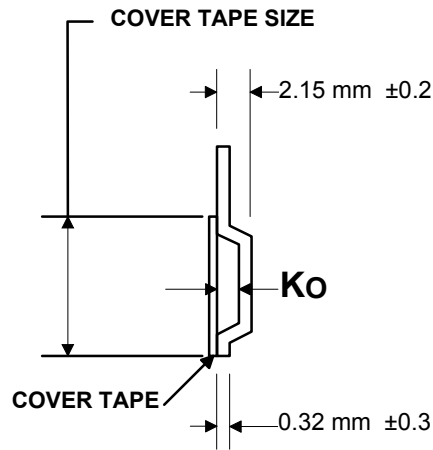
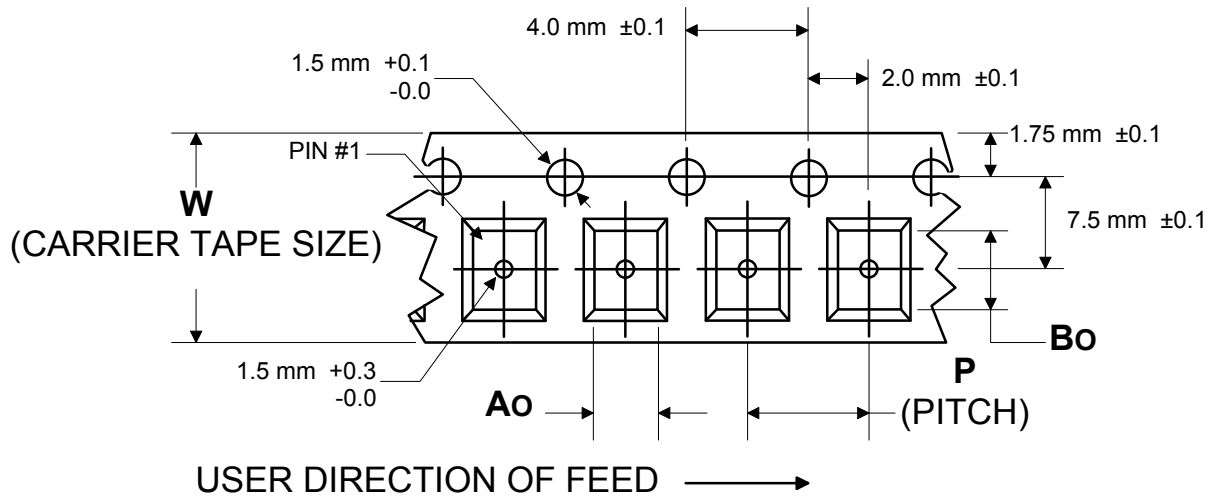
### Materials

Solder Pad Termination	Au plating 30 - 60 ulnches (76.2-152 uM) over 80-200 ulnches (203-508 uM) Ni.
Lid	Fe-Ni-Co Alloy Electroless Nickel Plate (8-11% Phosphorus) 100-200 ulnches Thick
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic
Pb Free	

Connection		Terminals
Port 1	Input or Return	11
	Return or Input	12
Port 2	Output or Return	5
	Return or Output	6
Ground		All others
Single Ended Operation		Return is ground
Differential Operation		Return is hot



## COMPONENT ORIENTATION and DIMENSIONS



Carrier Tape Dimensions		
<b>Ao</b>	7.55 mm	±0.1
<b>Bo</b>	9.59 mm	±0.1
<b>Ko</b>	2.30 mm	±0.1
<b>Pitch</b>	12.0 mm	±0.1
<b>W</b>	16.0 mm	±0.3

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Murata:](#)

[SF2064A](#)