



*Total Solution Provider in Saw Device*

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# SA1370BM1

Wireless, RF SAW Filter  
Revision 0: April 2011



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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## □ Electrical Characteristics

### Maximum Ratings

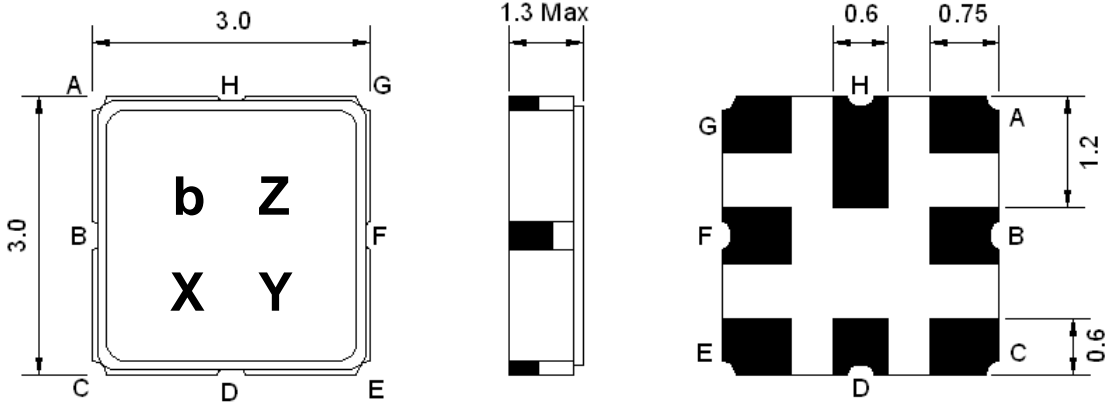
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M1			
Length x Width	mm <sup>2</sup>	-	3.0 x 3.0	-
Height	mm	-	-	1.3

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1370.0	-
Insertion Loss within 1350.0 ~ 1390.0 MHz	dB	-	1.5	3.5
Amplitude Ripple within 1350.0 ~ 1390.0 MHz	dB <sub>p-p</sub>	-	0.8	1.8
<b>Attenuation:</b>				
1120.0 ~1300.0 MHz	dB	20	27	-
1450.0 ~ 1620.0 MHz	dB	25	30	-
VSWR within 1350.0~1390.0 MHz	-	-	1.7	2.2

**Notes :** (1 ) No Matching Network (Ref. Testing Environment Circuit as shown below).

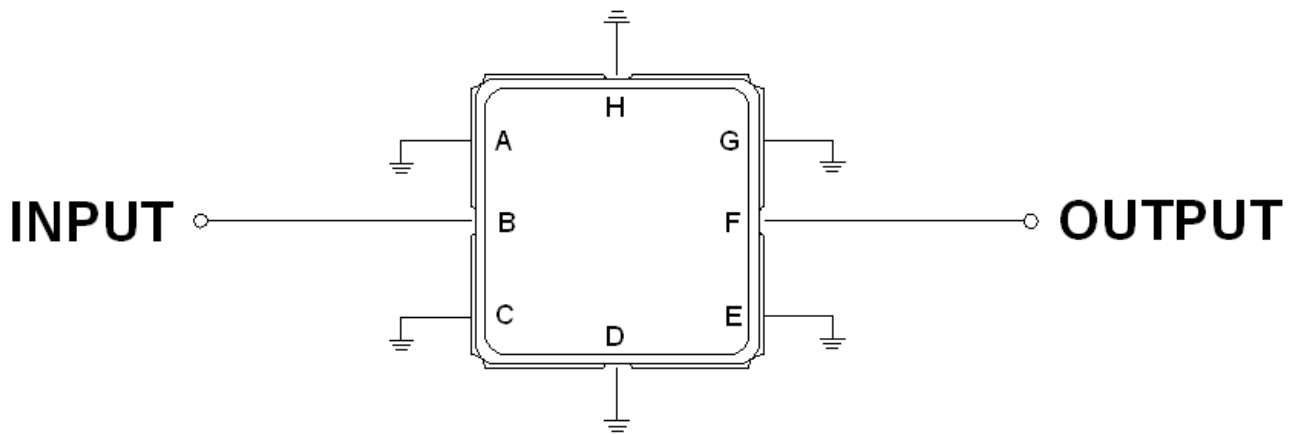
**Package Dimensions**



Marking Descriptions	
b	Wireless Application
Z	Series Number
X	Date Code(Year)
Y	Date Code(Month)

Pin Description	
A, C, D, E, G, H	Ground
B	Input
F	Output

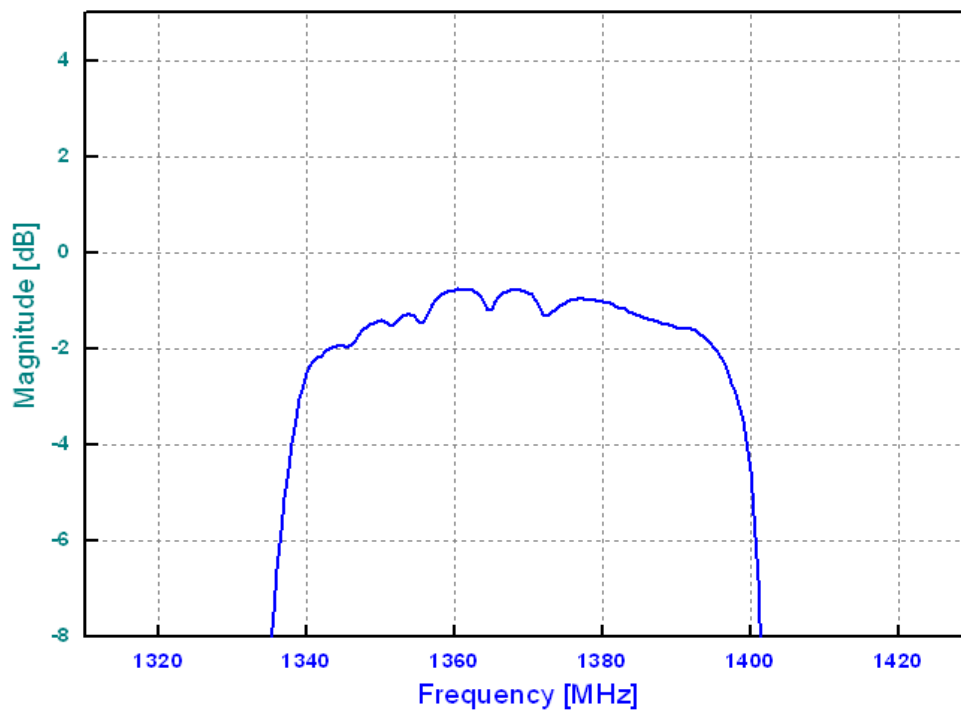
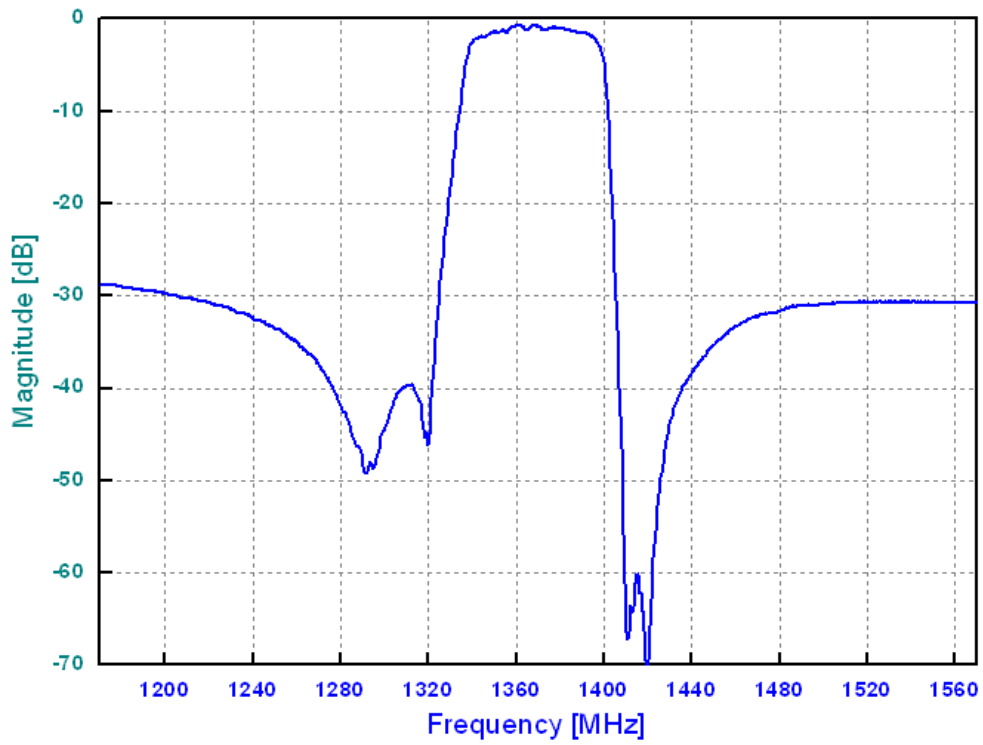
**Testing Environment**



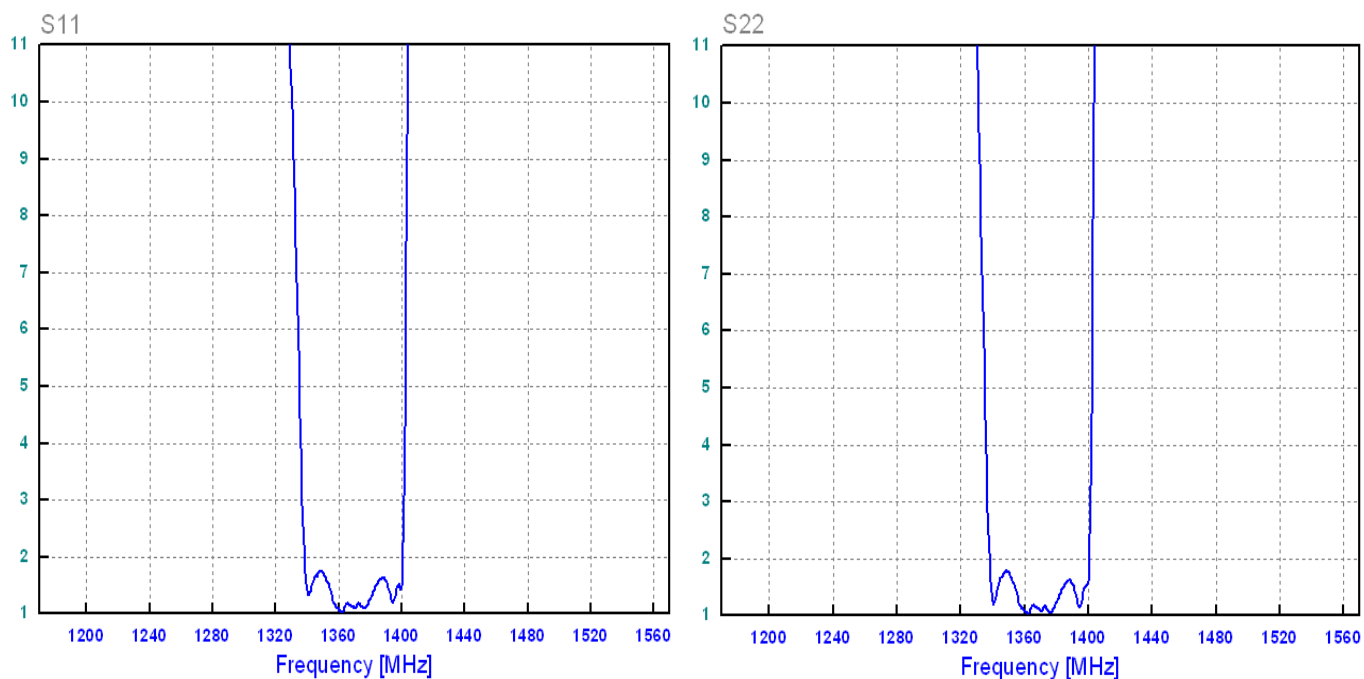
Source & Load Impedance: 50 Ω

## □ Frequency Characteristics

Frequency Response



### VSWR



### Smith Chart

