



*Total Solution Provider in Saw Device*

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# SA1130AM

Wireless, RF SAW Filter  
Revision 0: May 2009



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

### Maximum Ratings

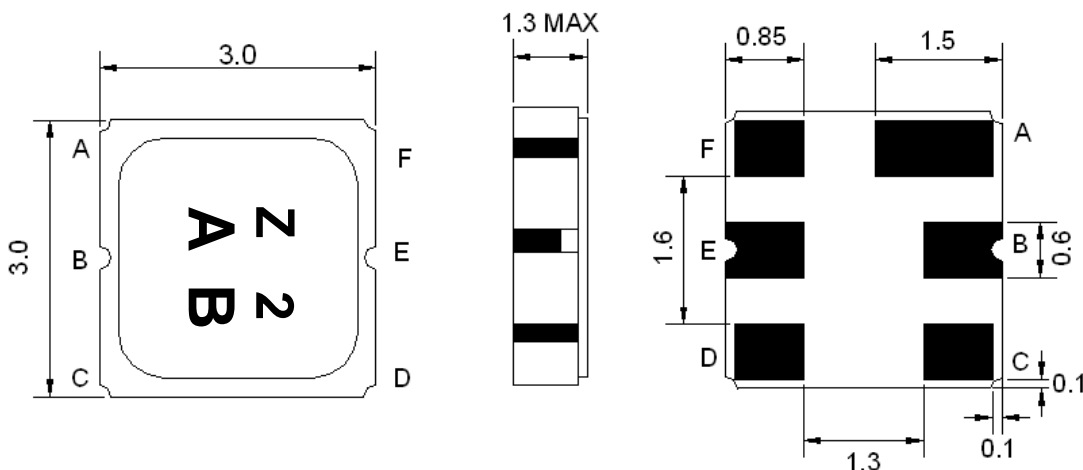
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M			
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	-	1130.0	-
Insertion Loss within 1120.0 ~ 1140.0 MHz	dB	-	0.8	2.0
Amplitude Ripple within 1120.0 ~ 1140.0 MHz	dB <sub>p-p</sub>	-	0.25	1.0
<b>Attenuation:</b>				
D.C. ~ 500.0 MHz	dB	17	20	-
500.0 ~ 1080.0 MHz	dB	15	17	-
1180.0~ 1190.0 MHz	dB	20	27	-
1190.0 ~ 1400.0 MHz	dB	15	18	-
VSWR within 1120.0 ~ 1140.0 MHz	-	-	1.7	2.1

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

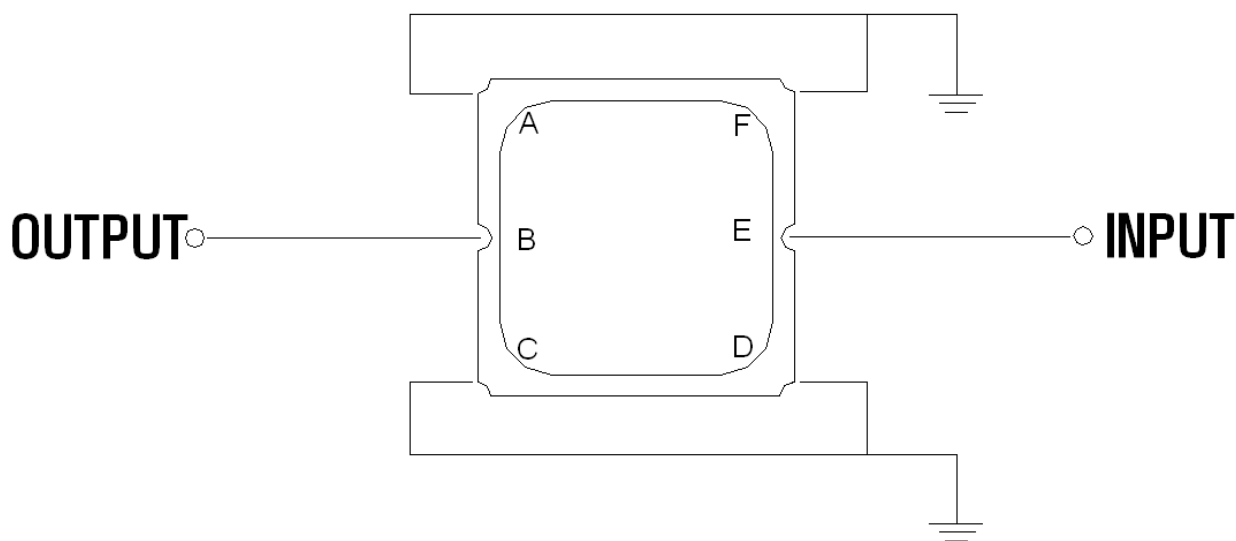
**Package Dimensions**



Marking Descriptions	
Z	Wireless Application
2	Series Number
A	Date Code(Year)
B	Date Code(Month)

Pin Description	
A, C, D, F	Ground
B	In or Out
E	Out or In

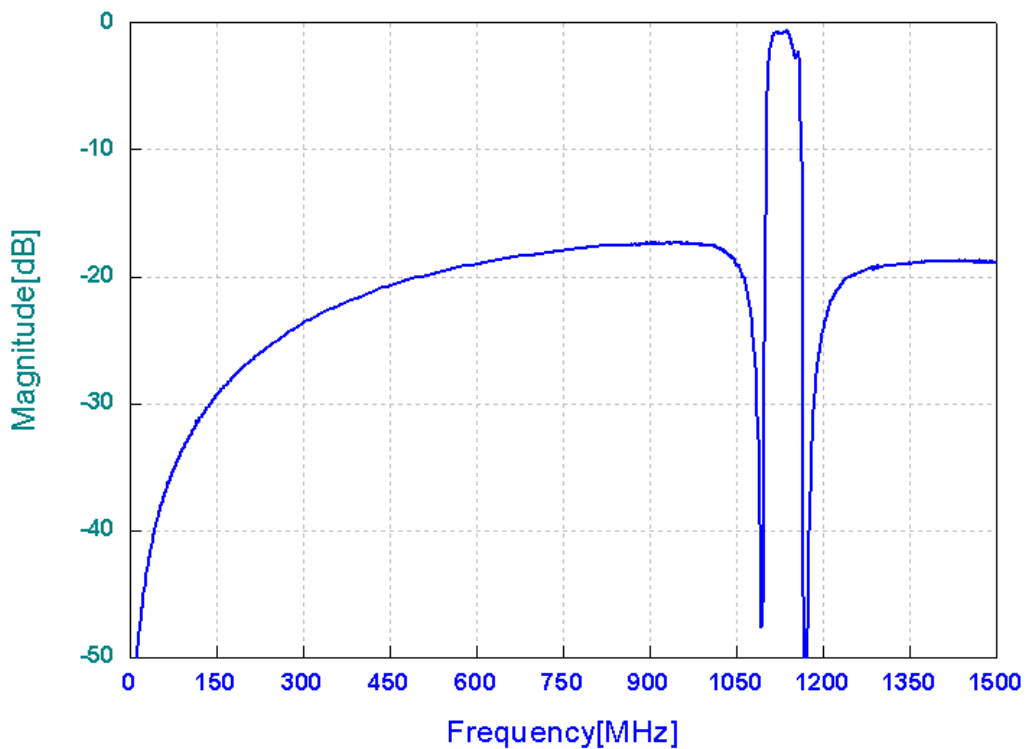
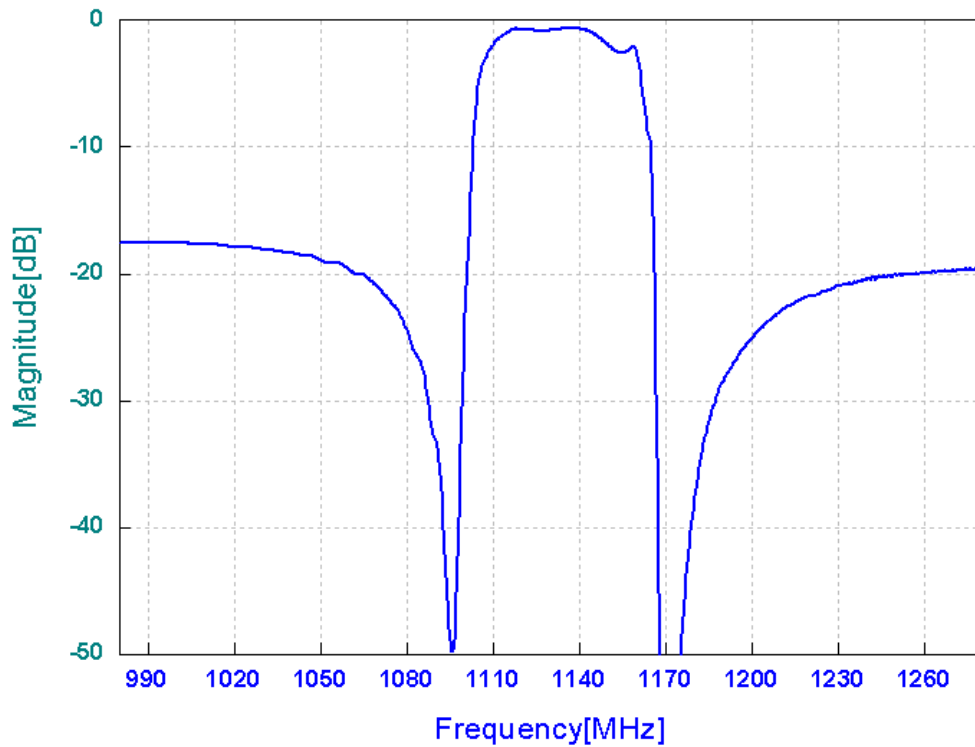
**Testing Environment**



Source & Load Impedance: 50 Ω

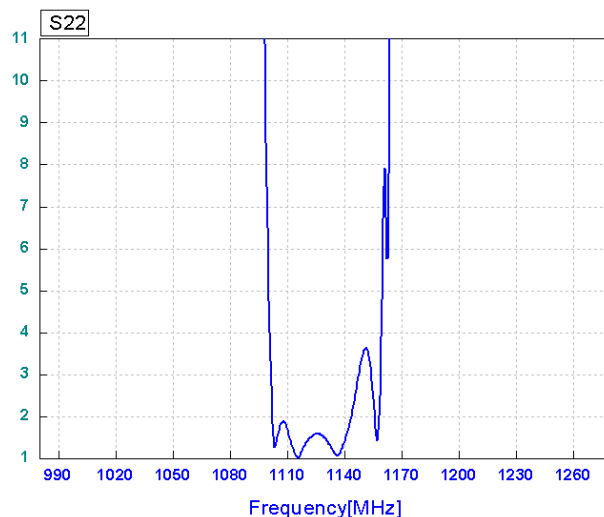
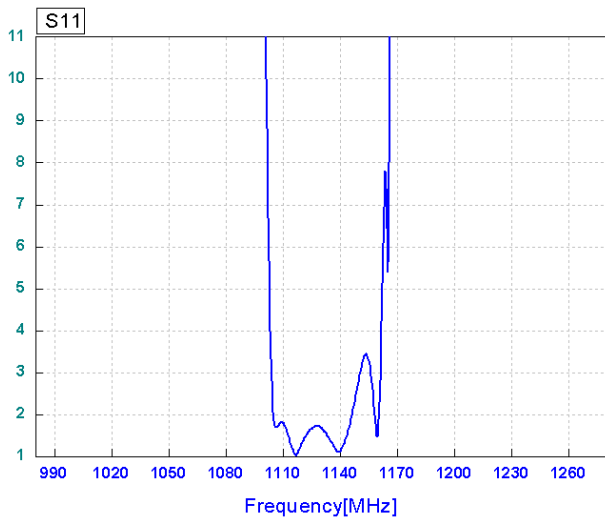
**□ Frequency Characteristics**

Frequency Response





VSWR



Smith Chart

