



*Total Solution Provider in Saw Device*

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# SA1086AM1

Wireless, Balanced RF SAW Filter  
Revision 0: September 2004



- Electrical Characteristics
  - Package Dimensions
  - Testing Environment
  - Frequency Characteristics
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**Electrical Characteristics**

**Maximum Ratings**

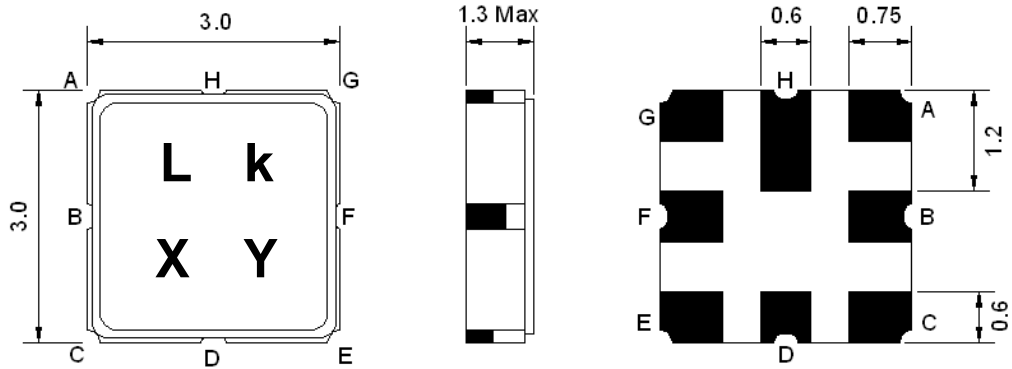
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	0
Source Impedance (balanced ended) <sup>(1)</sup>	Ω	-	200	-
Load Impedance (balanced ended) <sup>(1)</sup>	Ω	-	200	-
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	-	1086.0	-
Maximum Insertion Loss within 1081 ~ 1091 MHz	dB	-	3.5	4.5
Amplitude Ripple within 1081 ~ 1091 MHz	dB	-	0.6	1.5
Group Delay Ripple within 1081 ~ 1091 MHz	ns	-	7.0	-
Phase Balance within 1081 ~1091 MHz	deg.	-	10	-
<b>Attenuation:</b>				
500 ~ 988 MHz	dB	50	57	-
988 ~ 1002 MHz	dB	45	50	-
1038 ~ 1046 MHz	dB	35	40	-
1156 ~ 1600 MHz	dB	40	45	-
2040 ~ 2148 MHz	dB	30	35	-
Input / Output VSWR within 1081 ~ 1091 MHz	-	-	2.0	2.5

**Notes :** (1) No Matching Network .

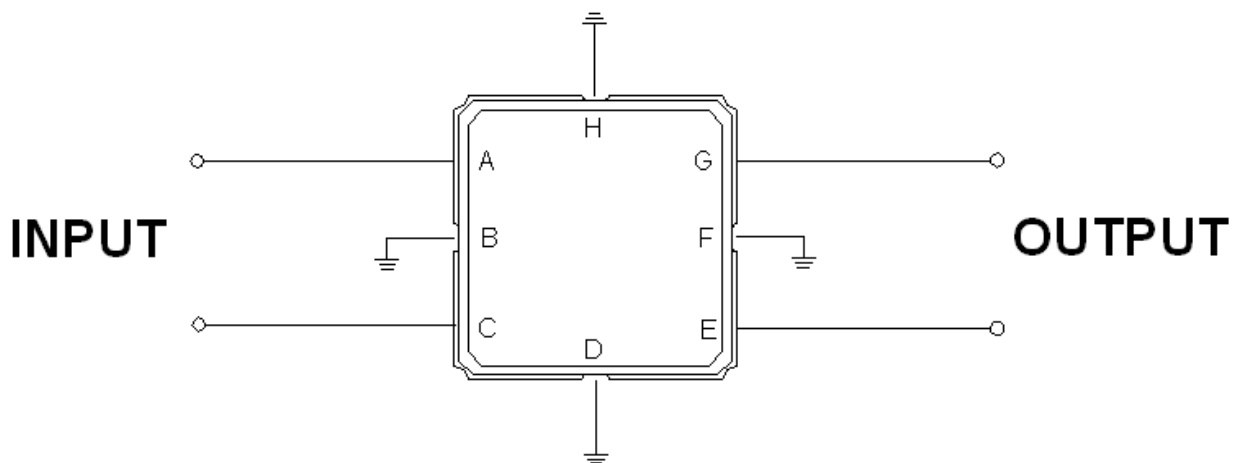
**Package Dimensions**



Marking Descriptions	
L	Wireless Application
k	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

**Testing Environment**

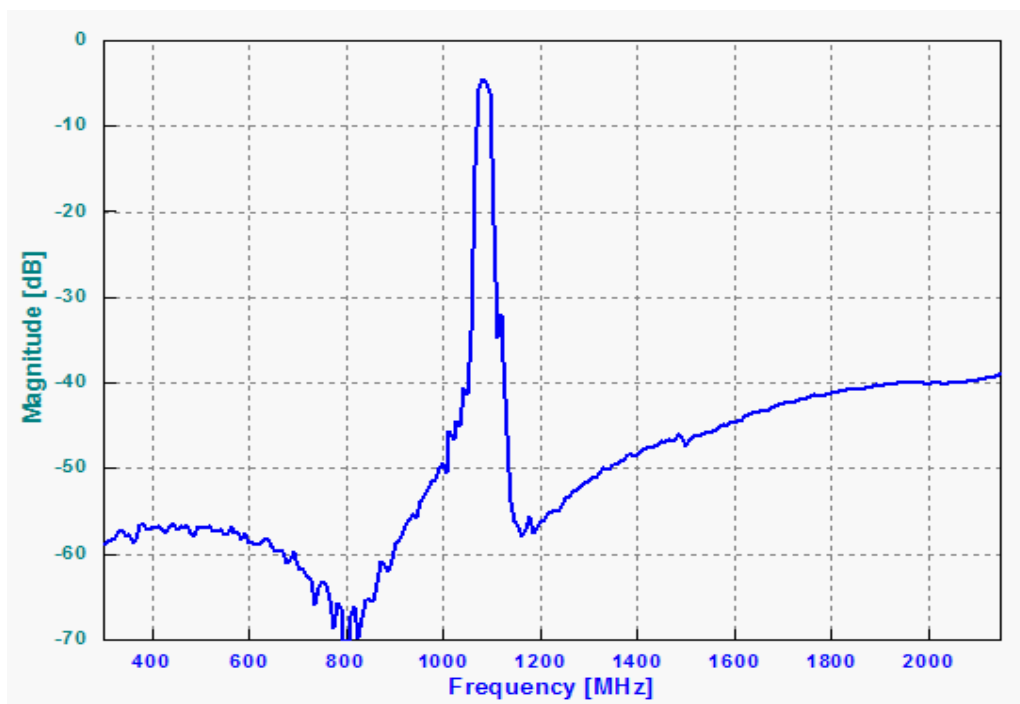
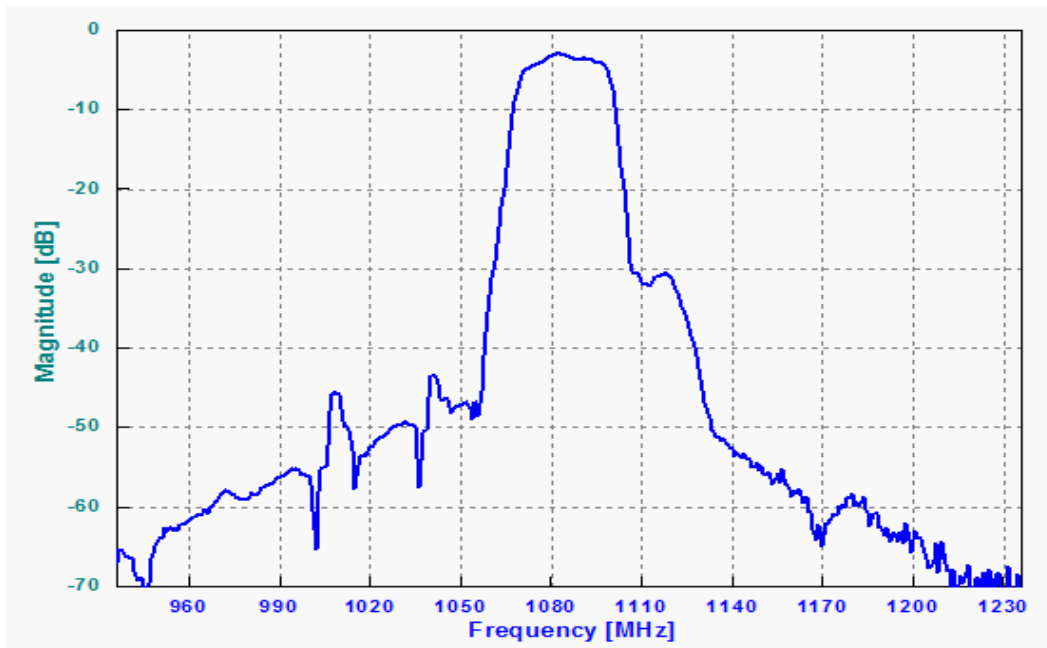


Source Impedance : 200 Ω

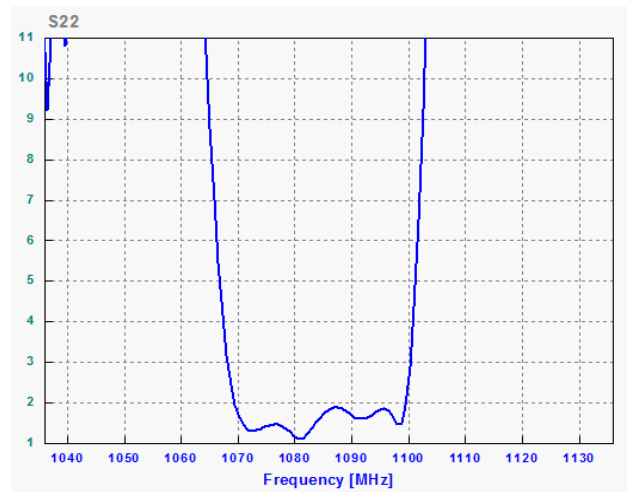
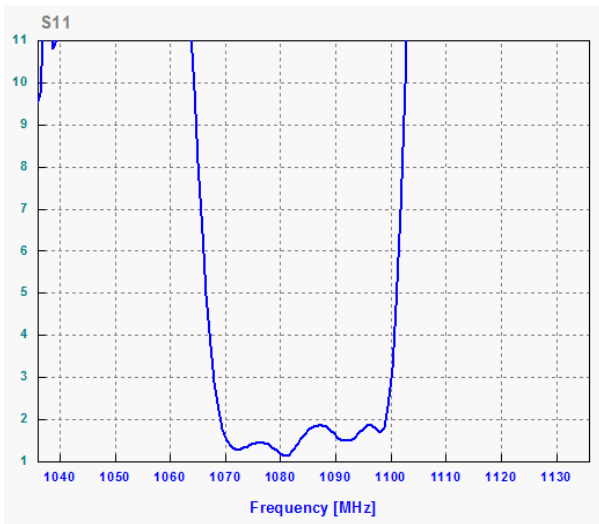
Load Impedance : 200 Ω

## □ Frequency Characteristics

Frequency Response



### VSWR



### Smith Chart

