



*Total Solution Provider in Saw Device*

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# SA691AM

Wireless, RF SAW Filter  
Revision 0: October, 2009



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

### Maximum Ratings

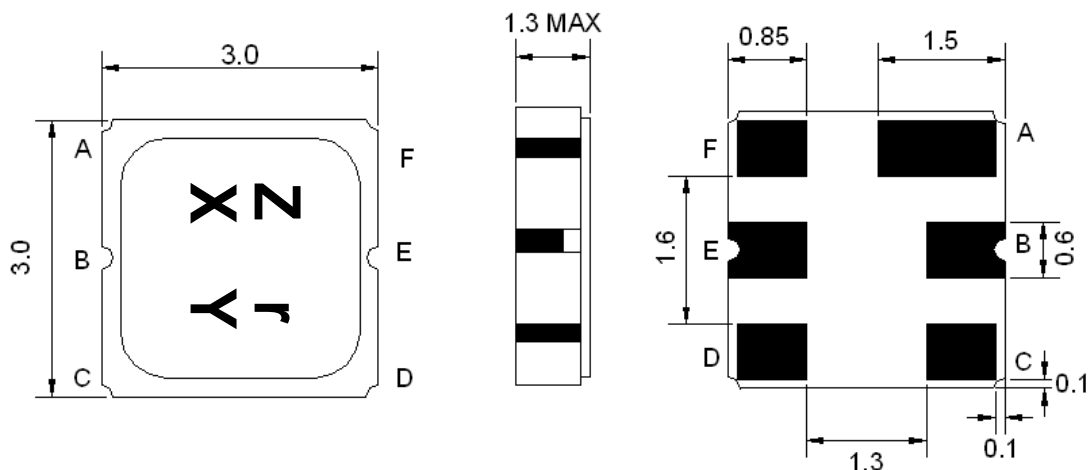
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-10	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package 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	-	691.5	-
Insertion Loss at Fo	dB	-	0.9	3.0
<b>Attenuation:</b>				
D.C ~ 650.0 MHz	dB	35	46	-
824.0 ~ 849.0 MHz	dB	35	41	-
869.0 ~ 894.0 MHz	dB	35	41	-
VSWR at Fo	-	-	1.4	2.0

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

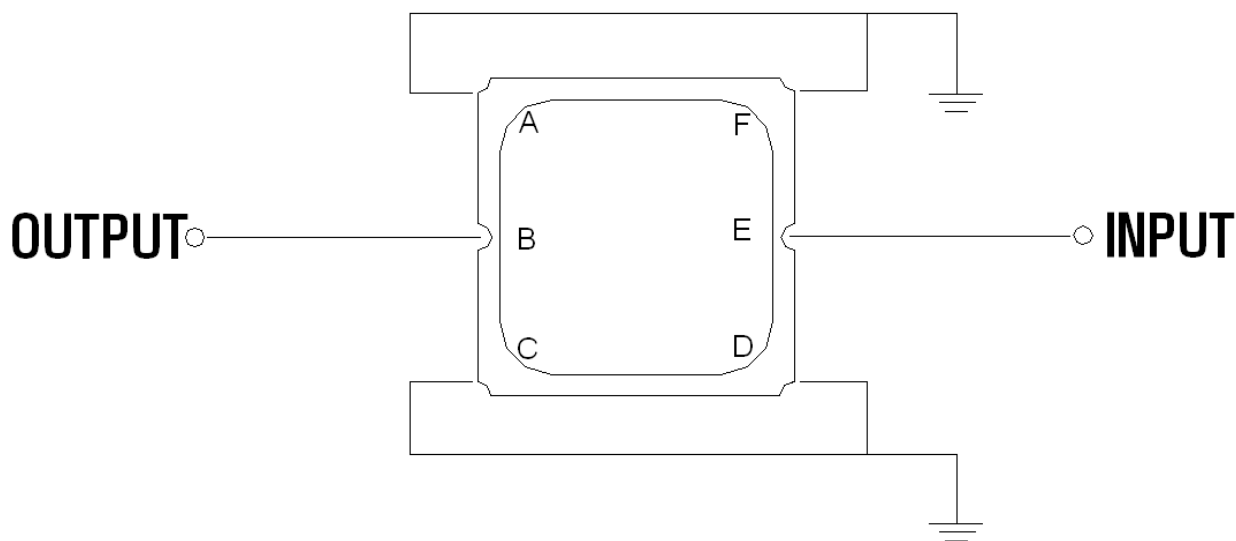
**□ Package Dimensions**



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

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

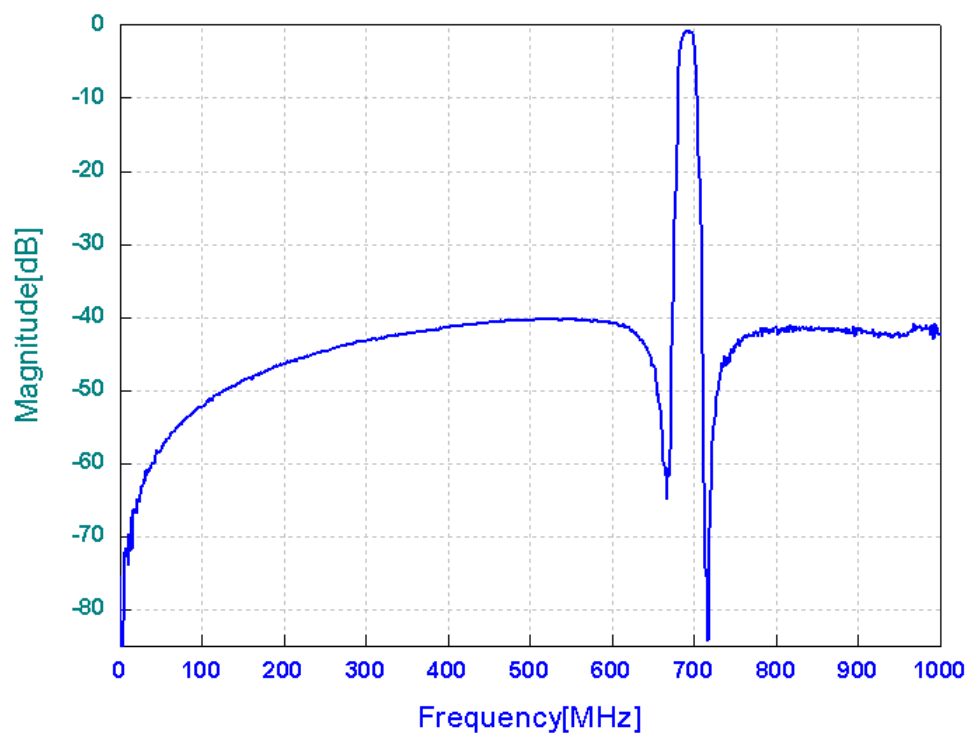
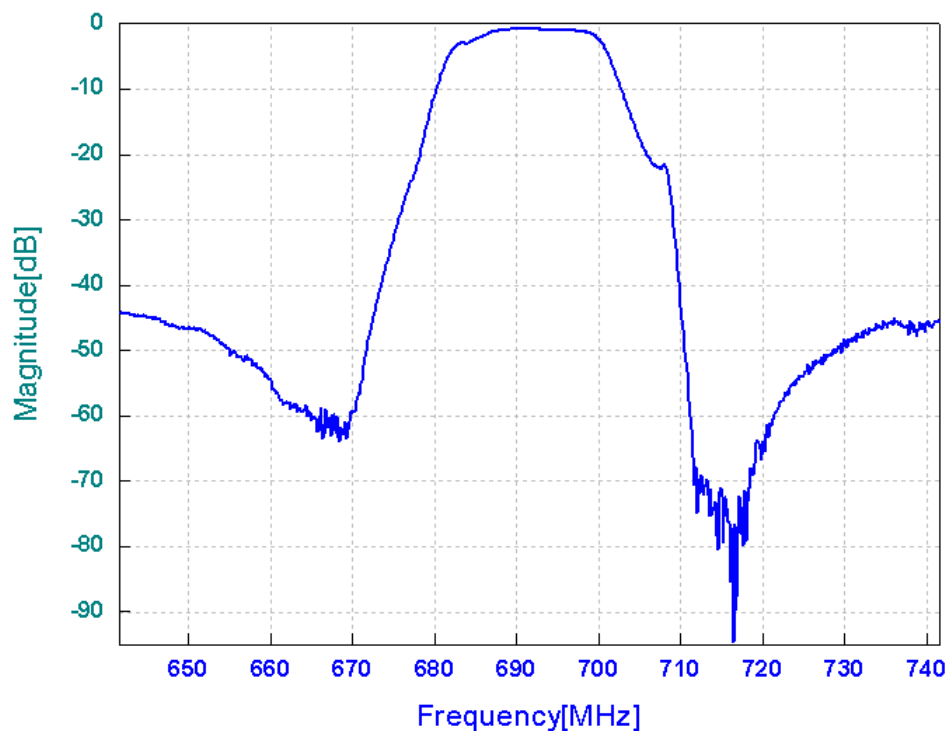
**□ Testing Environment**



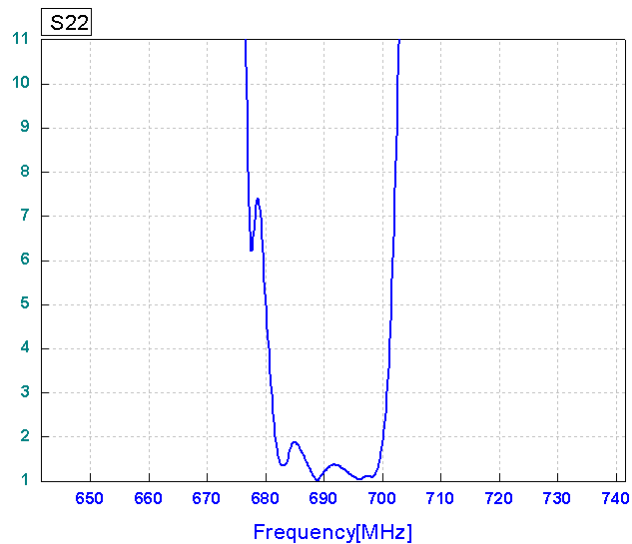
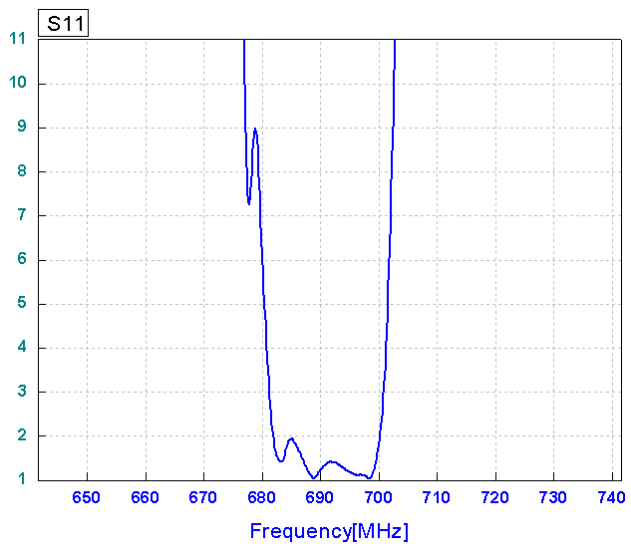
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### VSWR



### Smith Chart

