



*Total Solution Provider in Saw Device*

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# SA915EM

Wireless, RF SAW Filter  
Revision 0: May 2006



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

### Maximum Ratings

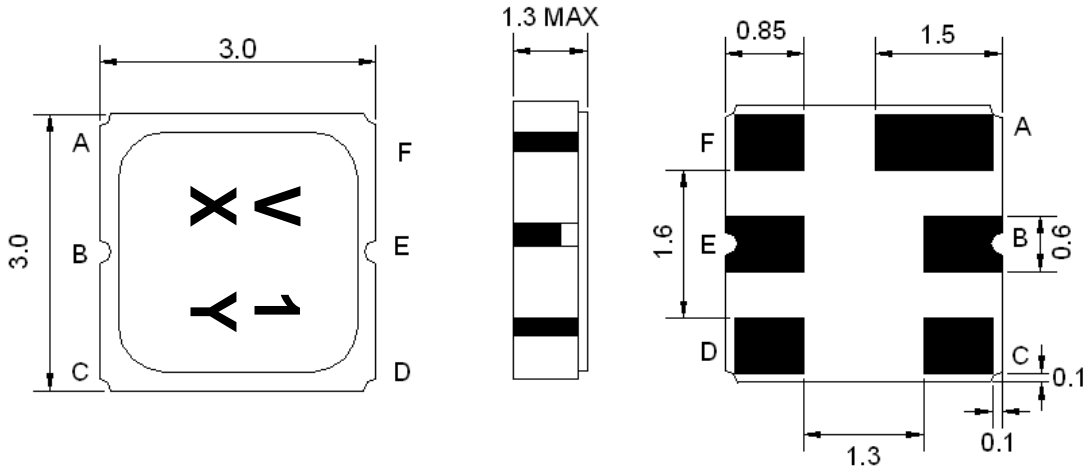
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	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	-	915.0	-
Insertion Loss within 902 ~ 928 MHz	dB	-	2.5	3.5
Amplitude Ripple within 902 ~ 928 MHz	dB <sub>p-p</sub>	-	0.7	2.0
<b>Attenuation:</b>				
D.C. ~ 800 MHz	dB	50	60	-
800 ~ 845 MHz	dB	50	55	-
845 ~ 880 MHz	dB	45	50	-
950 ~ 990 MHz	dB	25	31	-
990 ~ 1200 MHz	dB	50	58	-
1200 ~ 2000 MHz	dB	30	38	-
VSWR (902 ~ 928 MHz)	-	-	1.45	2.0

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

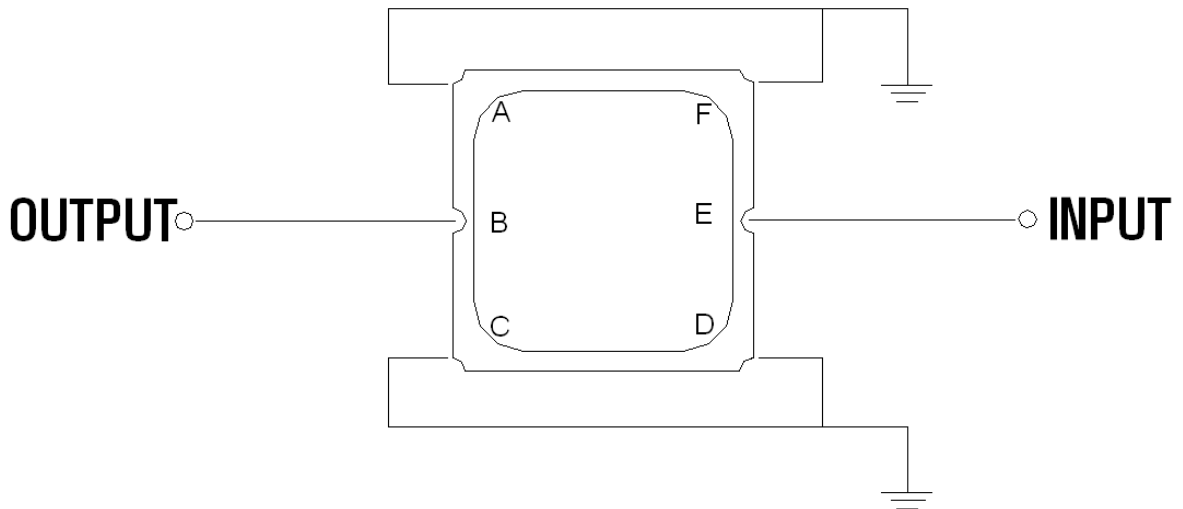
**□ Package Dimensions**



Marking Descriptions	
V	Wireless Application
1	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

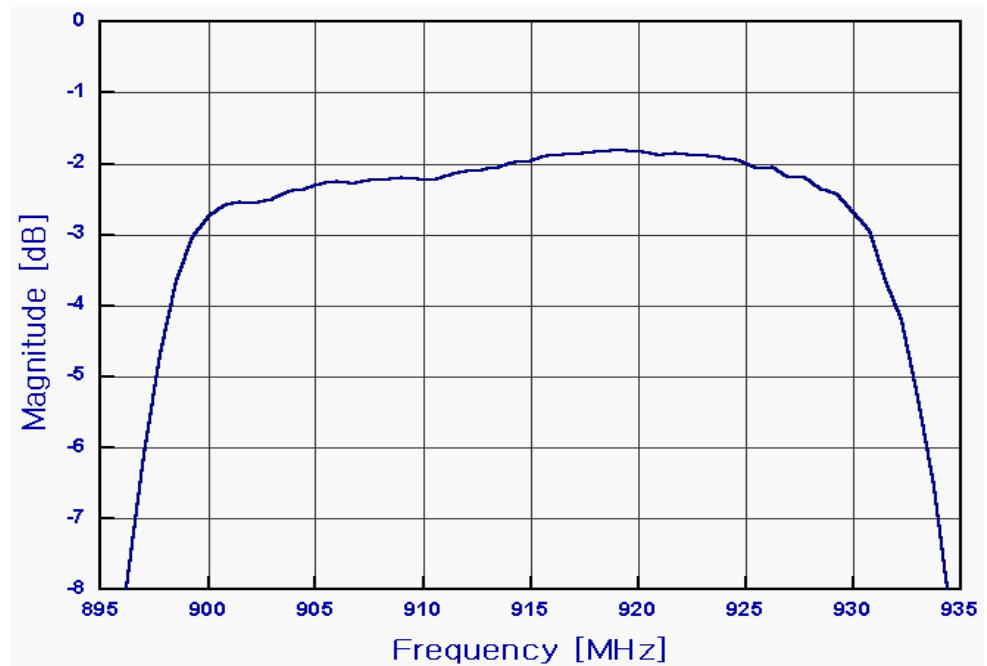
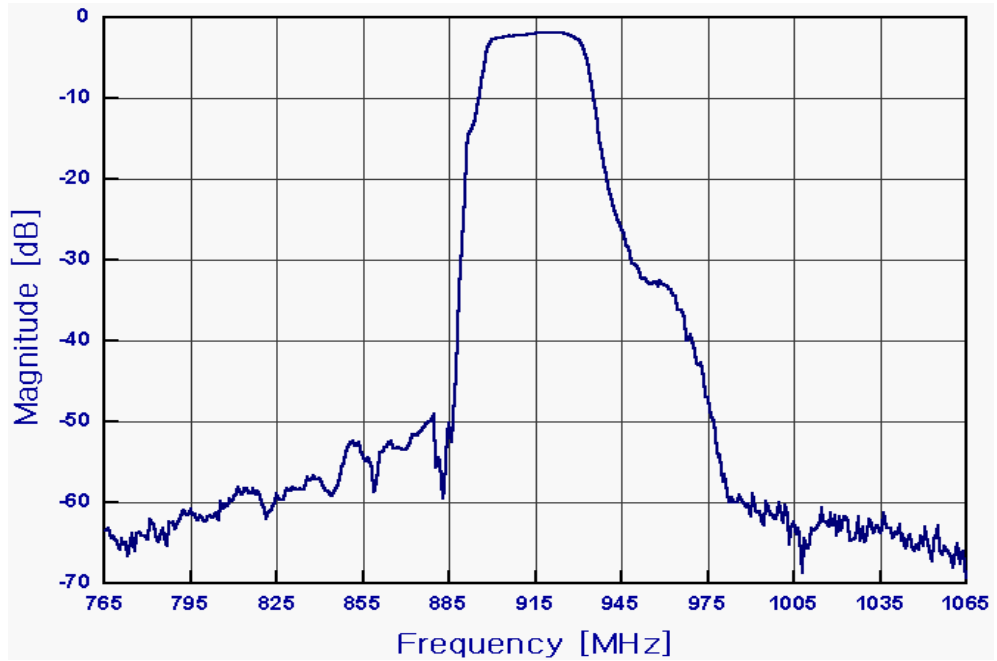
**□ Testing Environment**



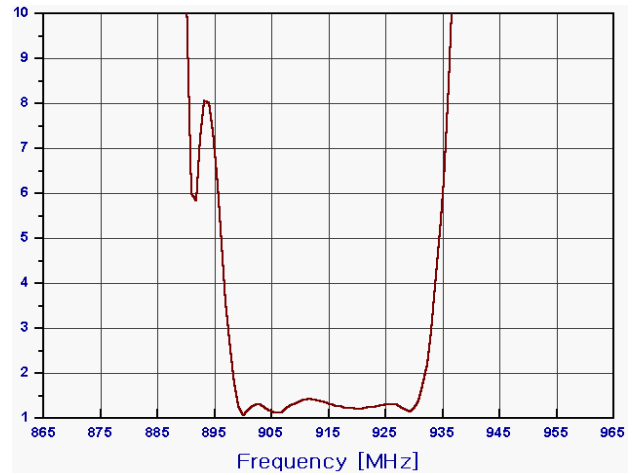
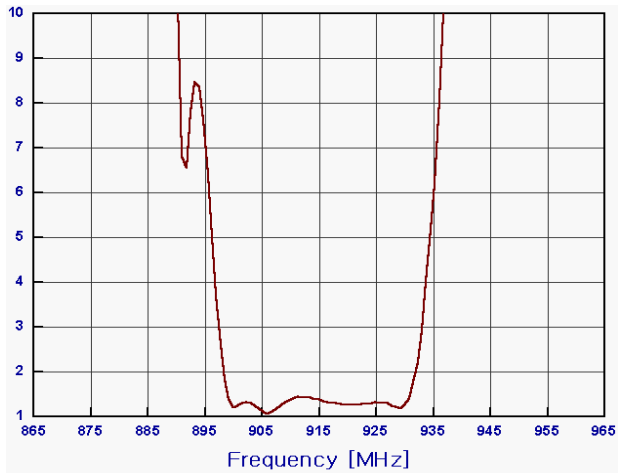
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



**VSWR**



**Smith Chart**

