



*Total Solution Provider in Saw Device*

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# SA847FM

Wireless, RF SAW Filter  
Revision 0: July 2011



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

### Maximum Ratings

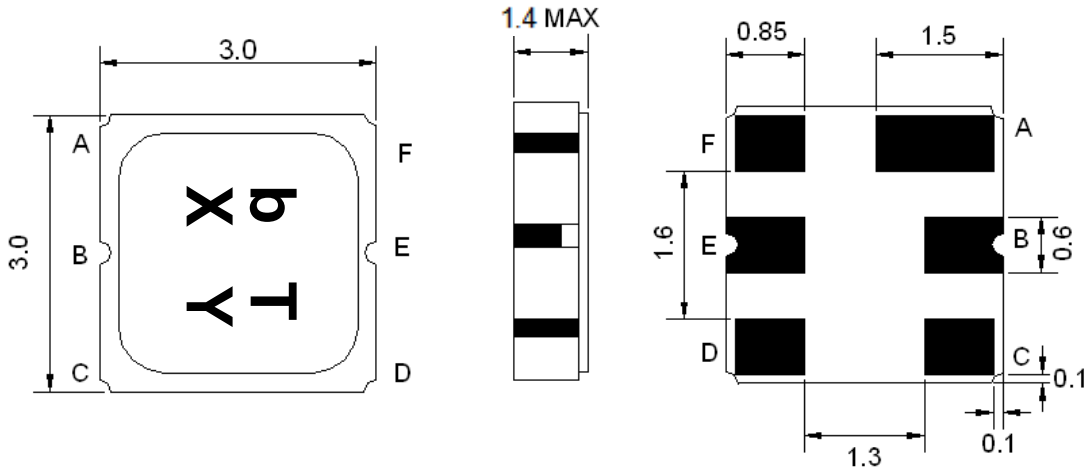
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package 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	-	847.0	-
Insertion Loss within 832.0 ~ 862.0 MHz	dB	-	2.7	4.5
Amplitude Ripple within 832.0 ~ 862.0 MHz	dB <sub>p-p</sub>	-	1.2	2.5
Return Loss within 832.0 ~ 862.0 MHz	dB	7.5	11	-
<b>Attenuation:</b>				
692.0 ~ 722.0 MHz	dB	45	55	-
1000.0 ~ 3000.0 MHz	dB	20	25	-
20.0 ~ 650.0 MHz	dB	45	60	-
902.0 ~ 932.0 MHz	dB	30	35	-
762.0 ~ 792.0 MHz	dB	40	50	-
791.0 ~ 821.0 MHz	dB	15	28	-

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

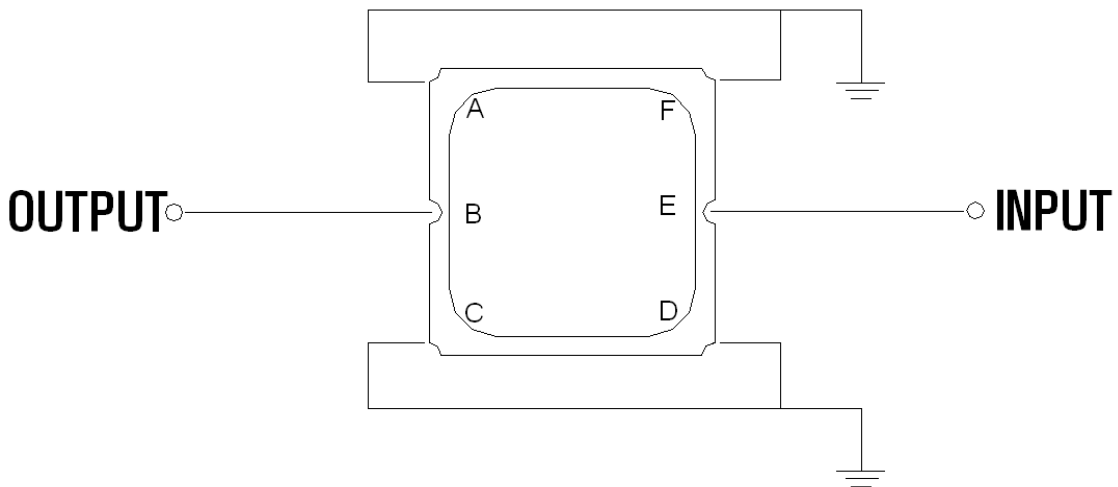
**Package Dimensions**



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

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

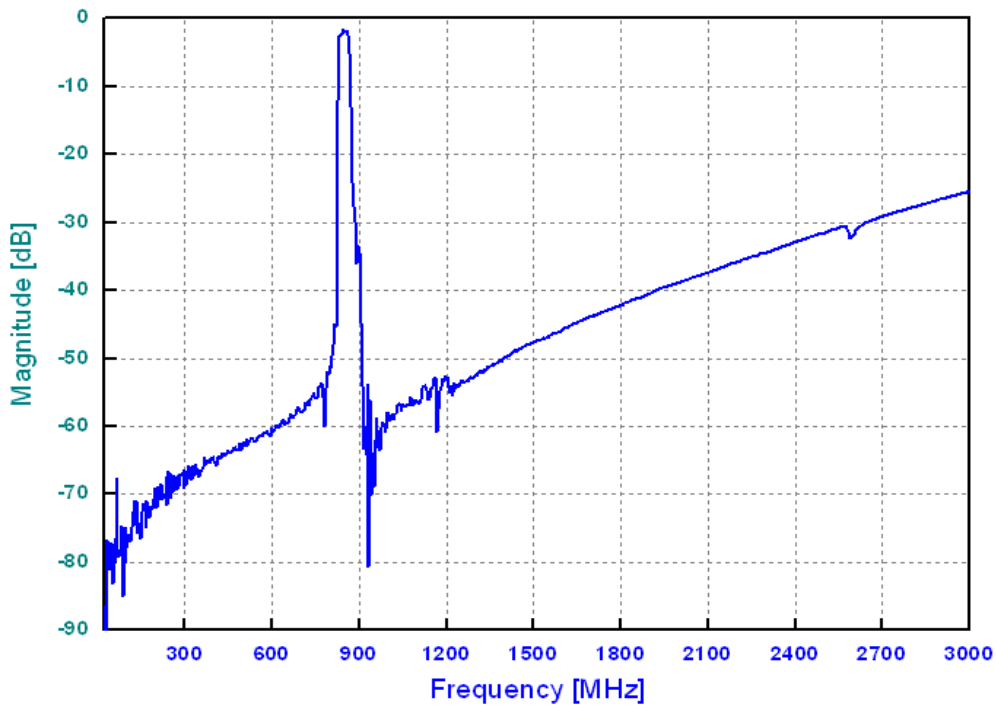
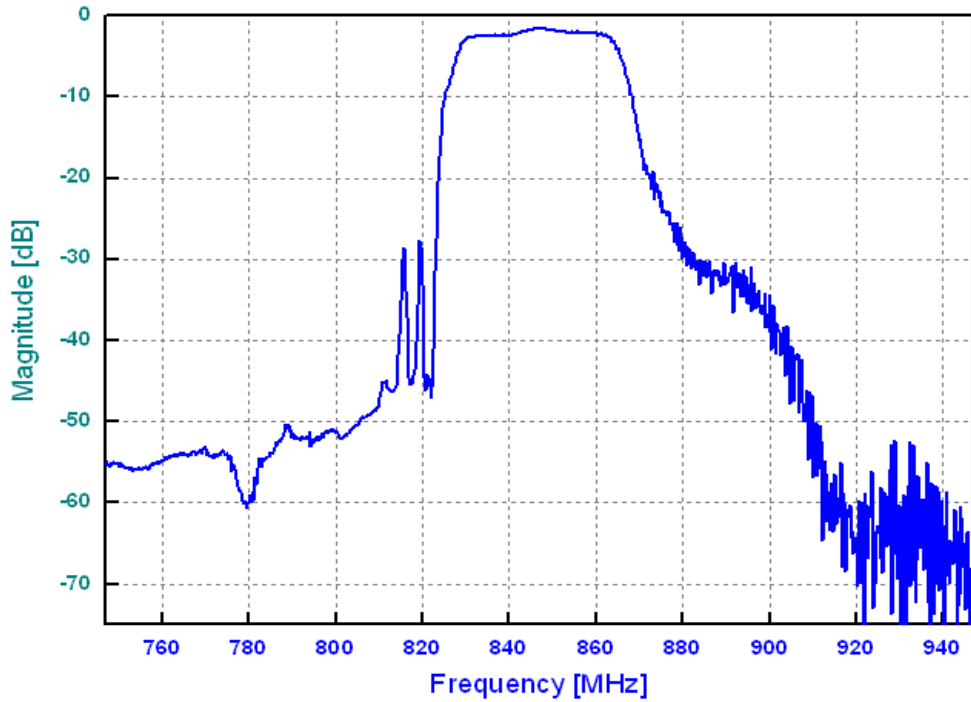
**Testing Environment**



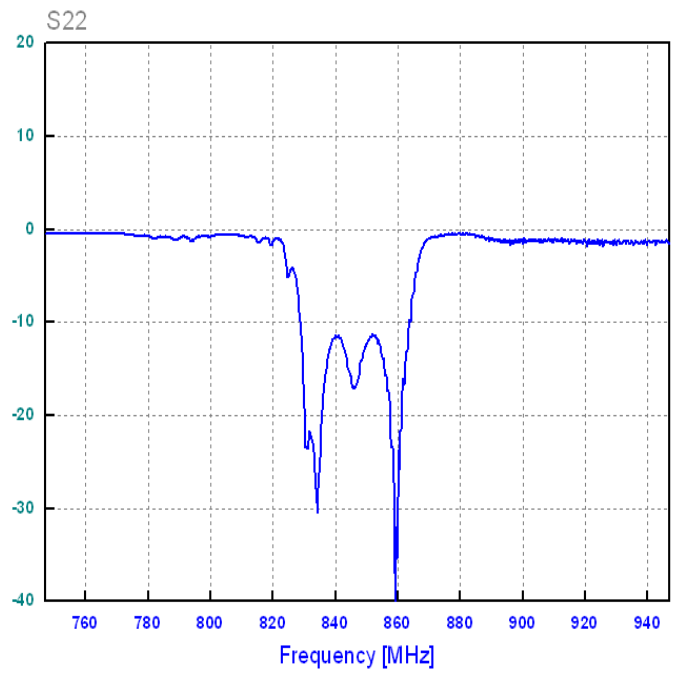
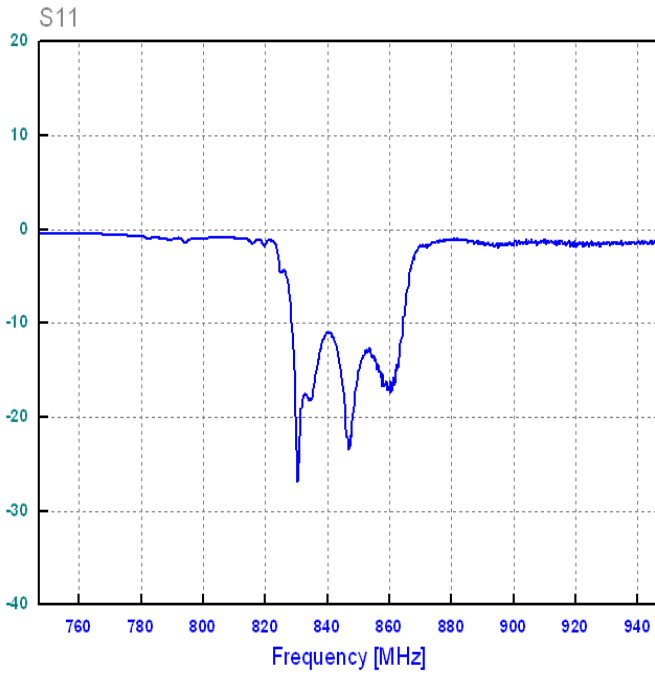
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### Return Loss



### Smith Chart

