



*Total Solution Provider in Saw Device*

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# SA1747AM

PCN, RF SAW Filter  
Revision 1: July 2011



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

### Maximum Ratings

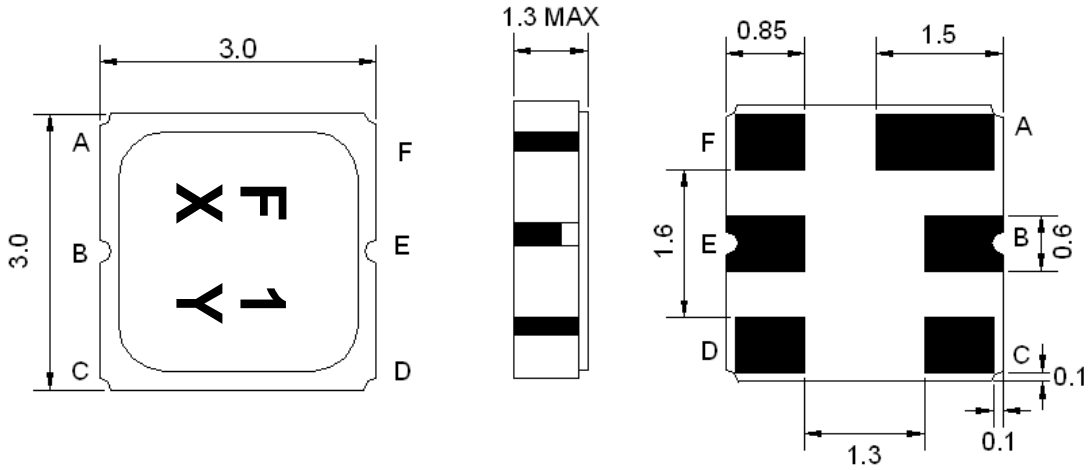
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	5
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package 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	-	1747.5	-
Insertion Loss within 1710 ~ 1785 MHz	dB	-	3.2	4.0
Amplitude Ripple within 1710 ~ 1785 MHz	dB <sub>p-p</sub>	-	1.9	2.5
<b>Attenuation:</b>				
D.C. ~ 1670 MHz	dB	18	23	-
1670 ~ 1680 MHz	dB	15	40	-
1805 ~ 1880 MHz	dB	5	8	-
1880 ~ 4500 MHz	dB	20	25	-
4500 ~ 5200 MHz	dB	15	20	-
VSWR within 1710 ~ 1785 MHz	-	-	3.0	3.5

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

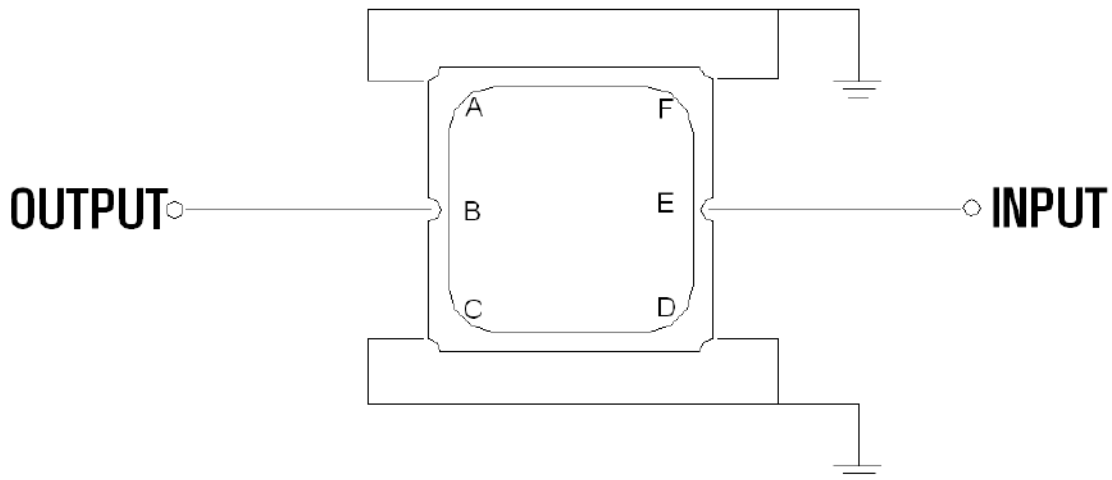
**Package Dimensions**



Marking Descriptions	
F	PCN Application
1	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

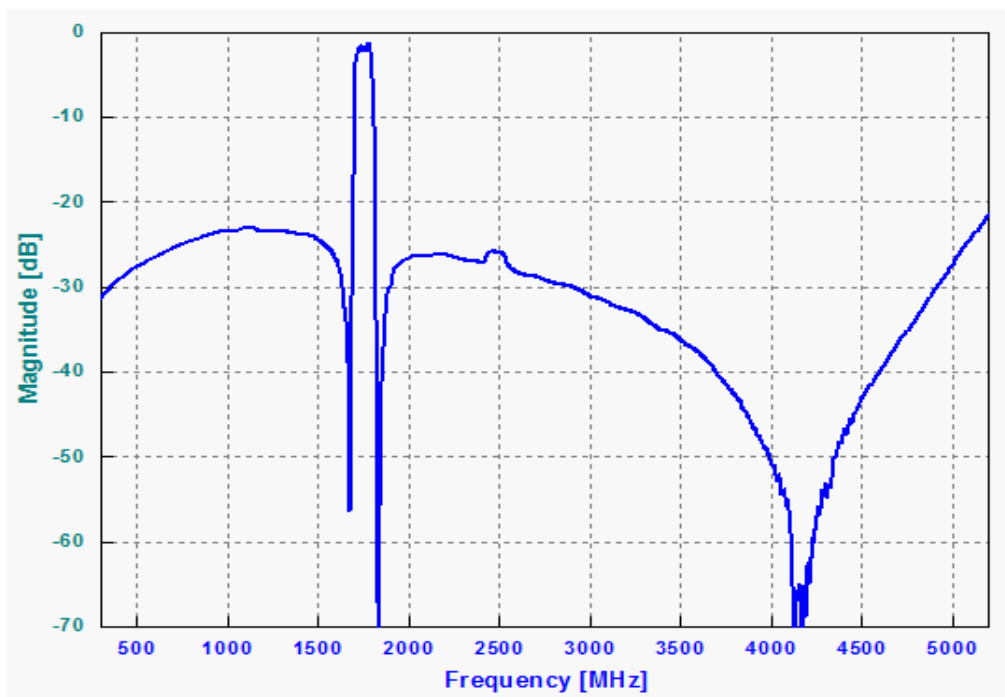
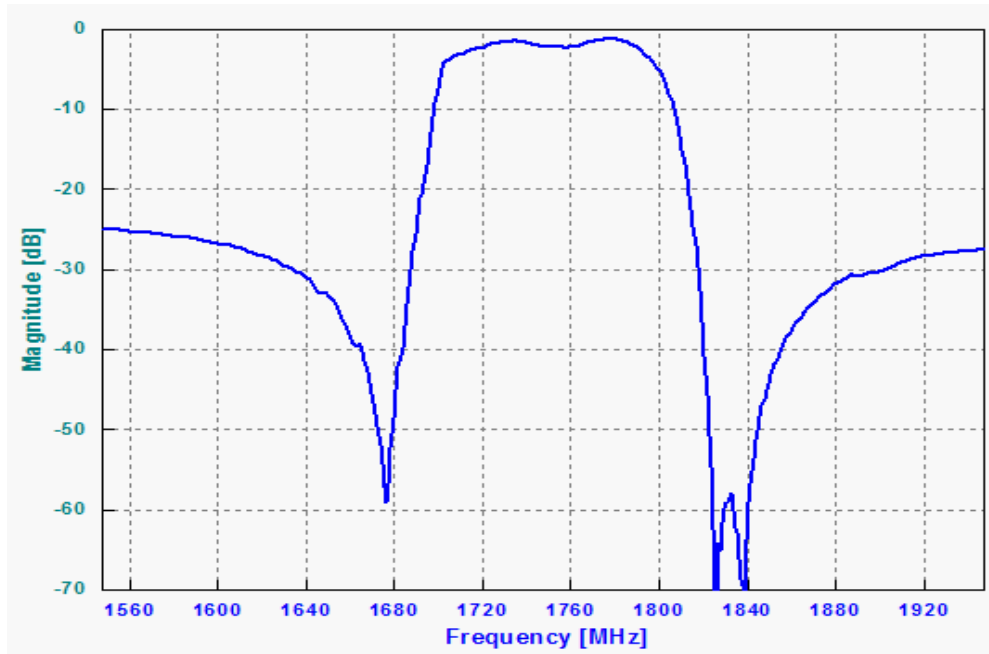
**Testing Environment**



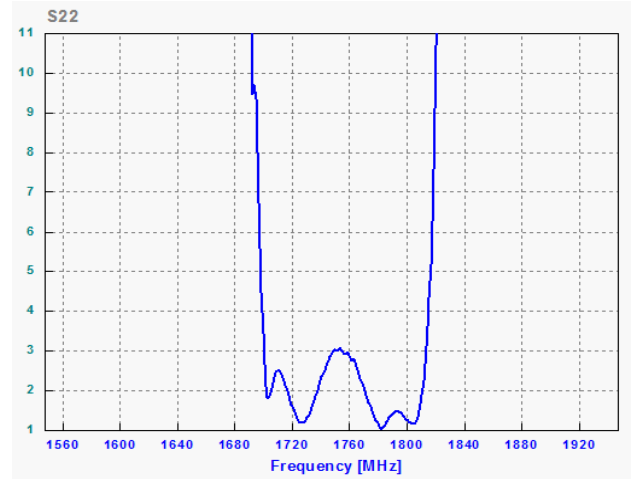
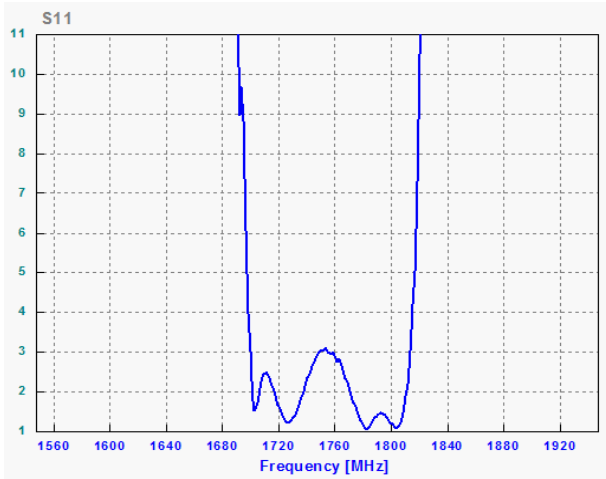
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



VSWR



Smith Chart

