



*Total Solution Provider in Saw Device*

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# SA781AM1

LTE , TX Balanced RF SAW Filter  
Revision 0: January 2011



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

### Maximum Ratings

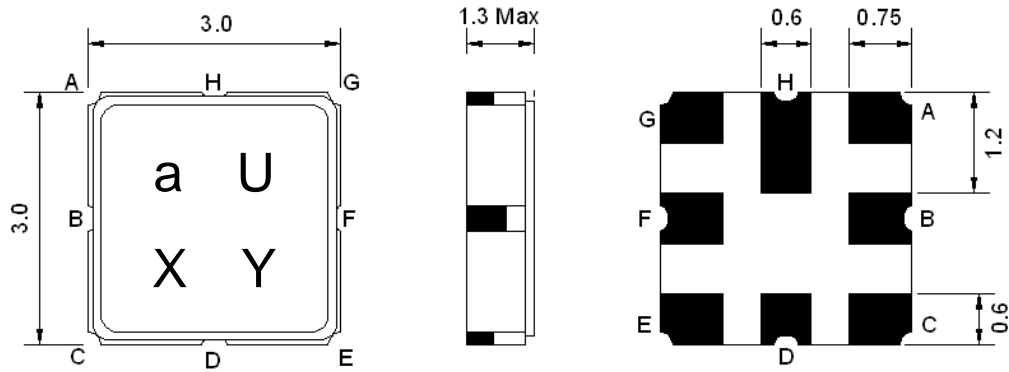
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	25
Source Impedance (single ended)	Ω	-	50	-
Load Impedance (balanced ended)	Ω	-	100	-
Package type & size	M1			
Length 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	-	781.5	-
Insertion Loss within 776.0 ~ 787.0 MHz	dB	-	2.3	2.7
Amplitude Ripple within 776.0~787.0MHz	dB <sub>p-p</sub>	-	0.3	1.0
<b>Attenuation:</b>				
746.0 ~ 757.0 MHz	dB	40	45	-
869.0 ~ 894.0 MHz	dB	45	55	-
1552.0 ~ 1574.0 MHz	dB	35	42	-
1574.42 ~ 1576.42 MHz	dB	35	42	-
1805.0 ~ 1880.0 MHz	dB	25	33	-
1930.0 ~ 2000.0 MHz	dB	25	30	-
2328.0 ~ 2361.0 MHz	dB	25	30	-
3104.0 ~ 3148.0 MHz	dB	20	30	-
VSWR within 776.0~787.0 MHz	-	-	2.0	2.5

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

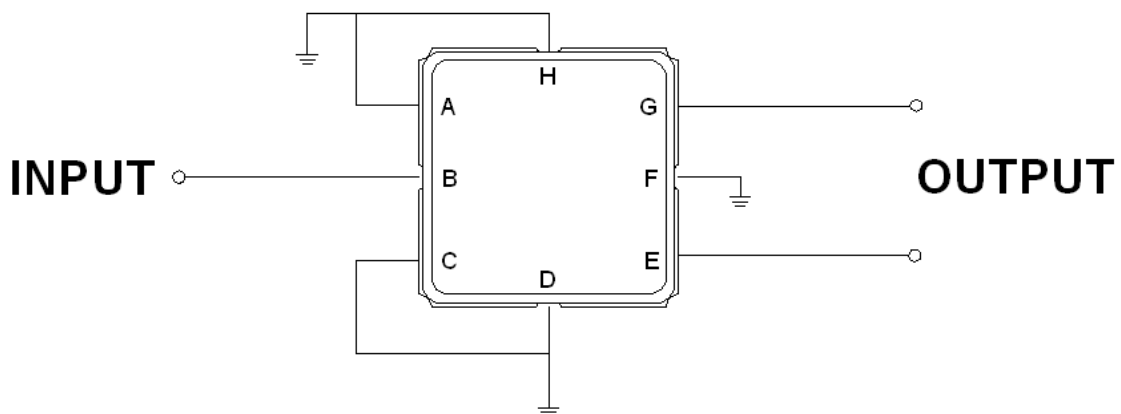
**Package Dimensions**



Marking Descriptions	
a	Wireless Application
U	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

**Testing Environment**

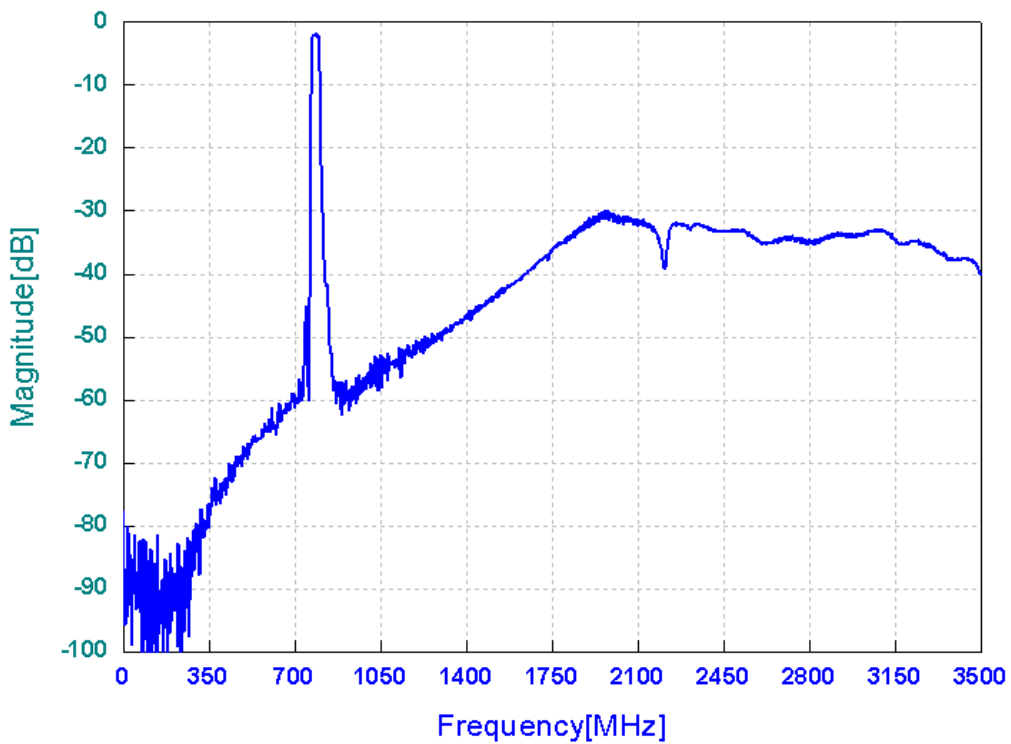
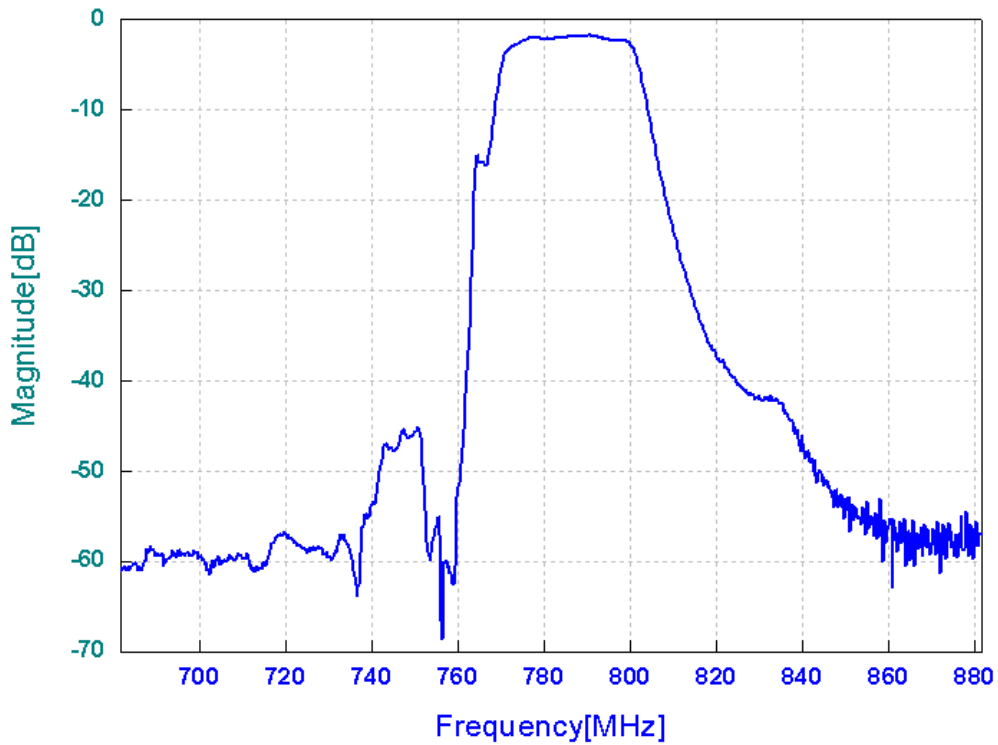


Source Impedance: 50 Ω

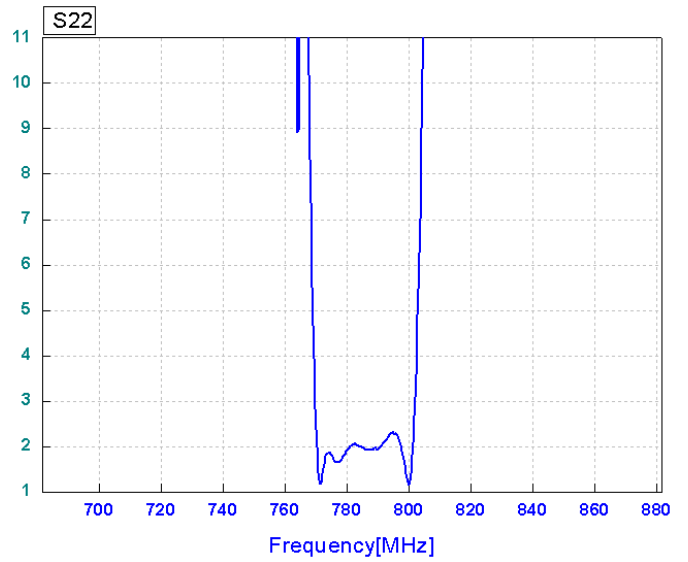
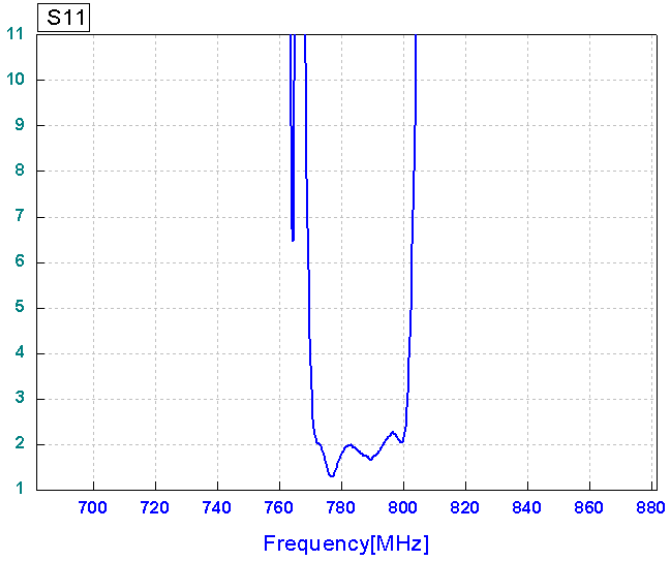
Load Impedance: 100 Ω

**□ Frequency Characteristics**

Frequency Response



**VSWR**



**Smith Chart**

