SA822JM

Wireless, RF SAW Filter
Revision 1: March 2012

RoHS compliance
Pb free

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

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❒ Electrical Characteristics

Maximum Ratings

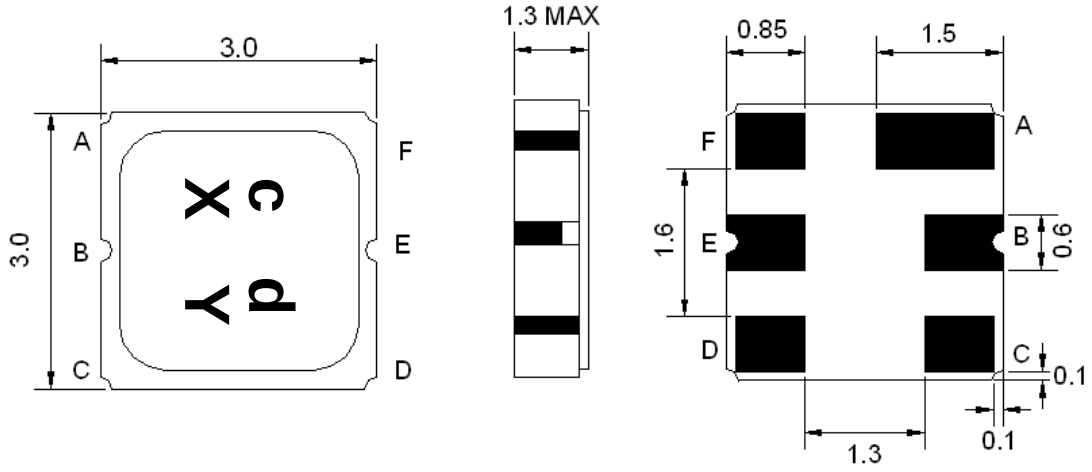
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended)(1)	Ω	-	50	-
Load Impedance (single ended)(1)	Ω	-	50	-
Package type & size	M			
Length x Width	mm²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	822.5	-
Insertion Loss within 815.0 ~ 830.0MHz	dB	-	1.1	2.5
Amplitude Ripple within 815.0 ~ 830.0MHz	dB_{p-p}	-	0.6	1.5
Attenuation				
800.0 MHz	dB	10	37	-
845.0 MHz	dB	1	28	-
860.0 ~ 875.0 MHz	dB	28	45	-
2nd Harmonic	dB	25	30	-
3rd Harmonic	dB	30	40	-
VSWR within 815.0~830.0MHz	-	-	1.5	2.2

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

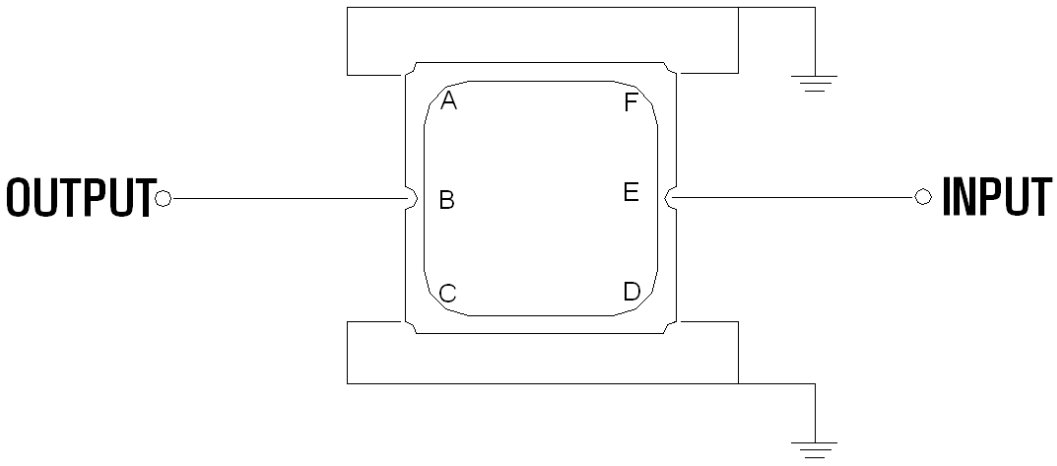
❒ Package Dimensions



Marking Descriptions	
c	Wireless Application
d	Series Number
X	Date Code(Year)
Y	Date Code(Month)

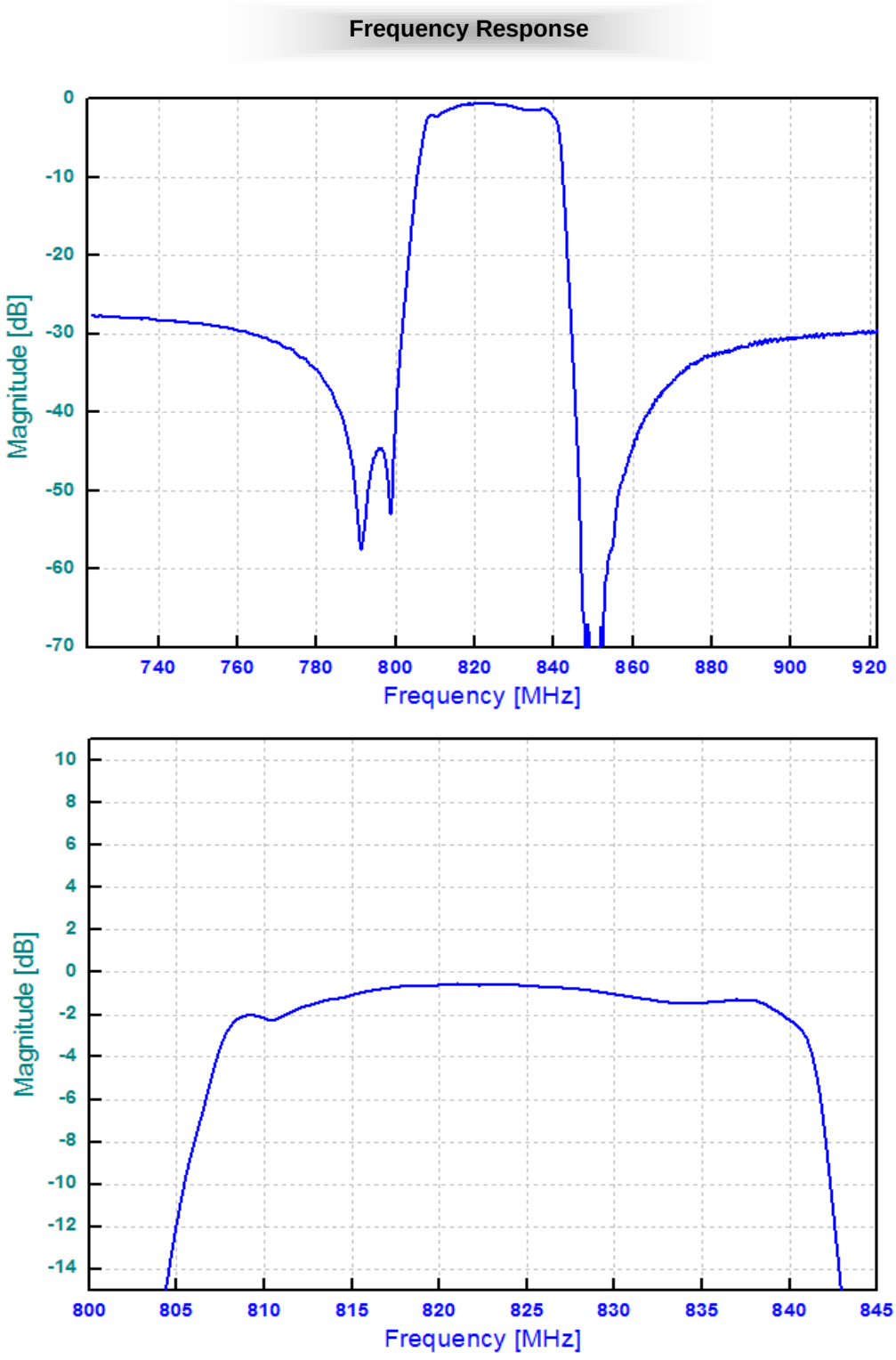
Pin Description	
A, C, D, F	Ground
E	In or Out
B	Out or In

❒ Testing Environment

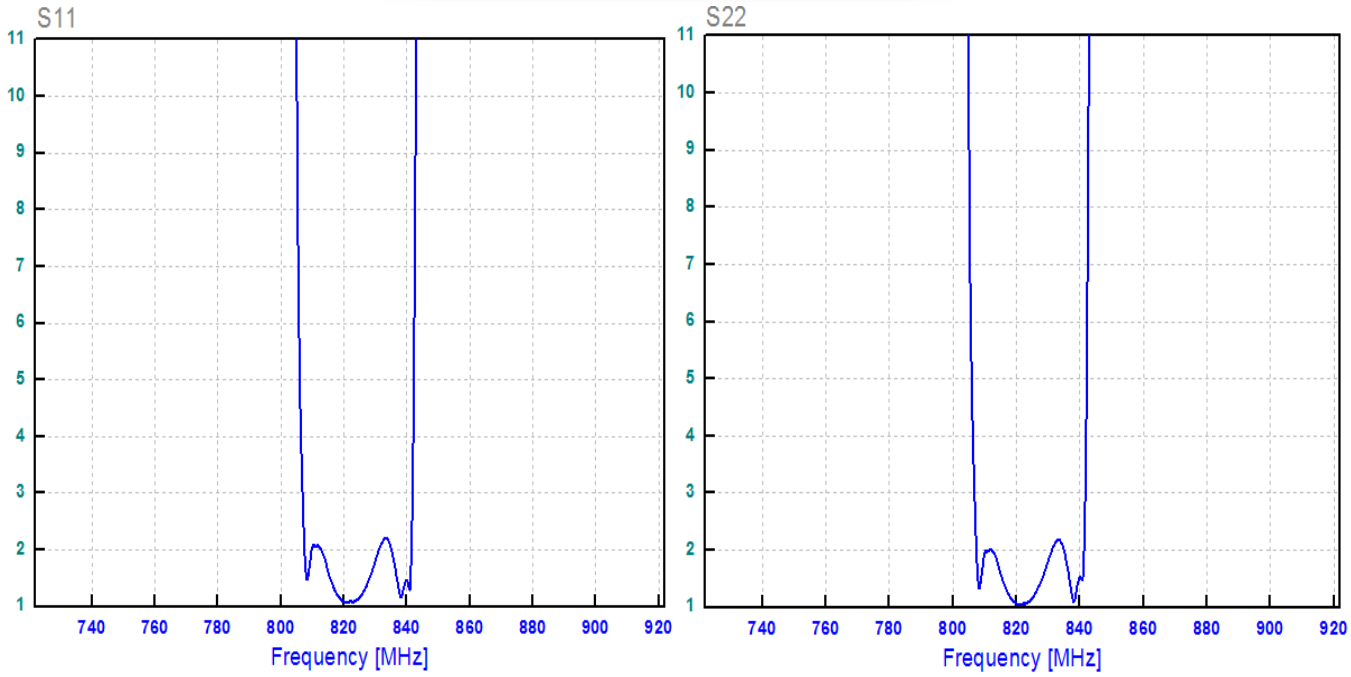


Source & Load Impedance: 50 Ω

❒ Frequency Characteristics



VSWR



Smith Chart