



*Total Solution Provider in Saw Device*

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# SA399AM1

Wireless,RF SAW Filter  
Revision 0: October 2009



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

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## □ Electrical Characteristics

### Maximum Ratings

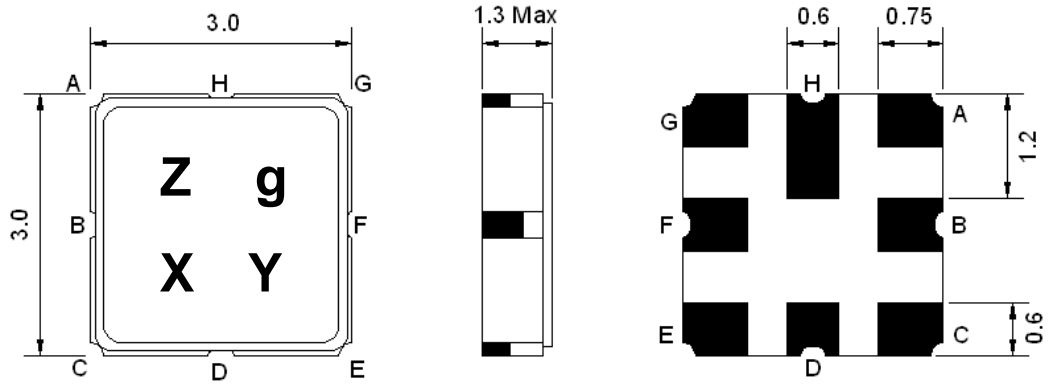
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+80
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	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	-	399.025	-
Insertion Loss within 396.525 ~ 401.525 MHz	dB	-	1.8	3.0
Amplitude Ripple within 396.525 ~ 401.525 MHz	dB <sub>p-p</sub>	-	0.6	1.5
<b>Attenuation:</b>				
350.0 MHz ~ 370.0 MHz	dB	45	55	-
420.0 MHz ~ 450.0 MHz	dB	40	45	-
VSWR within 396.525 ~ 401.525 MHz	-	-	1.6	2.0

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

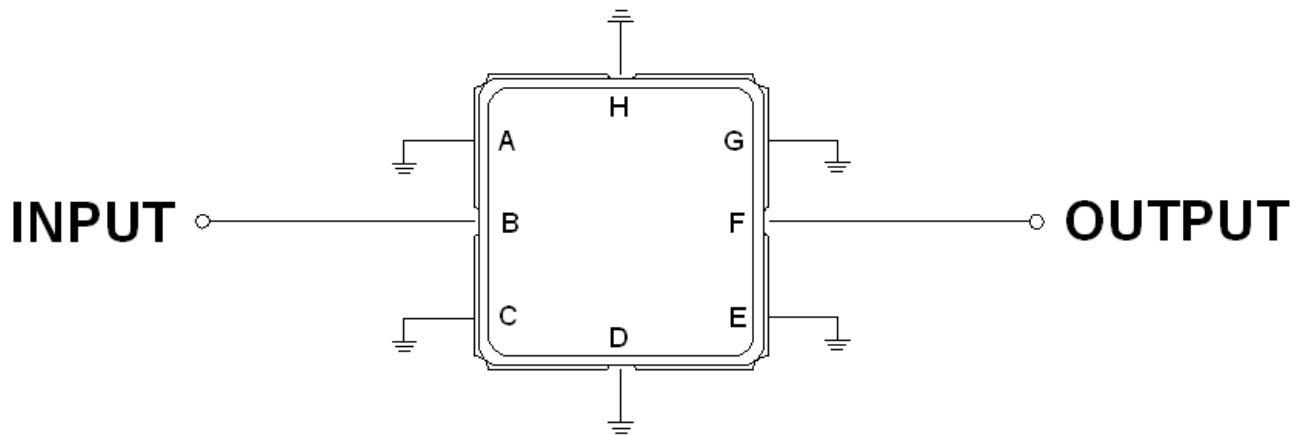
**Package Dimensions**



Marking Descriptions	
Z	Wireless Application
g	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

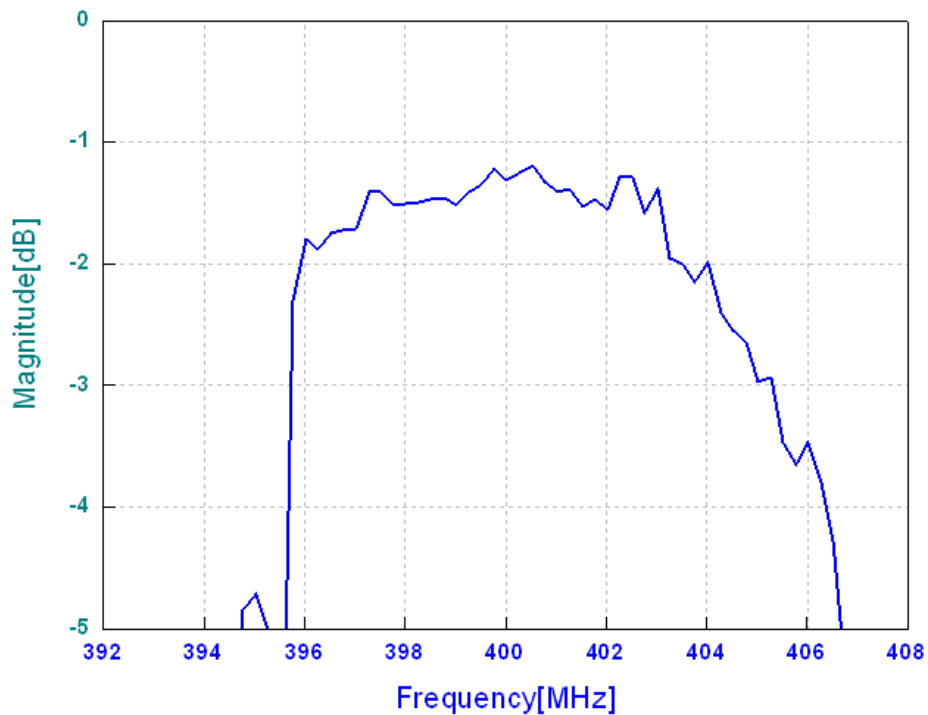
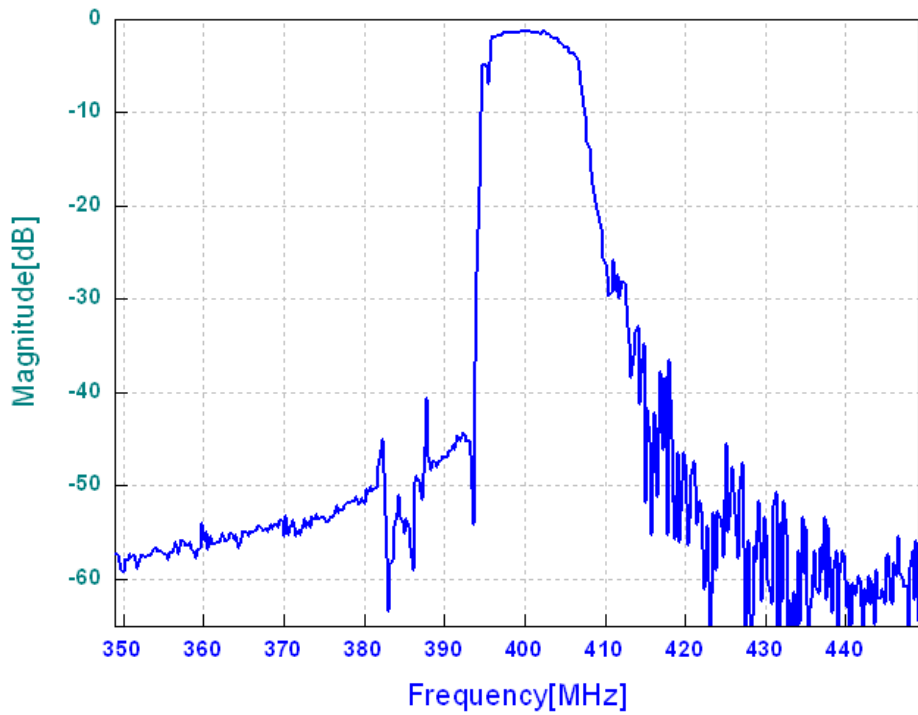
**Testing Environment**



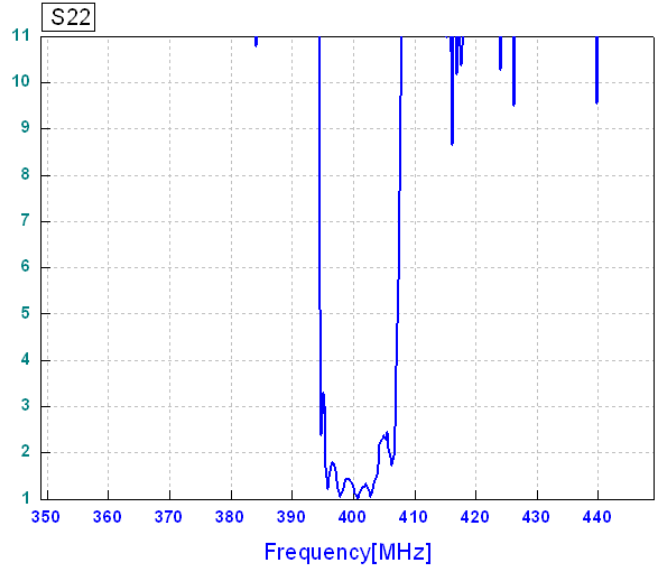
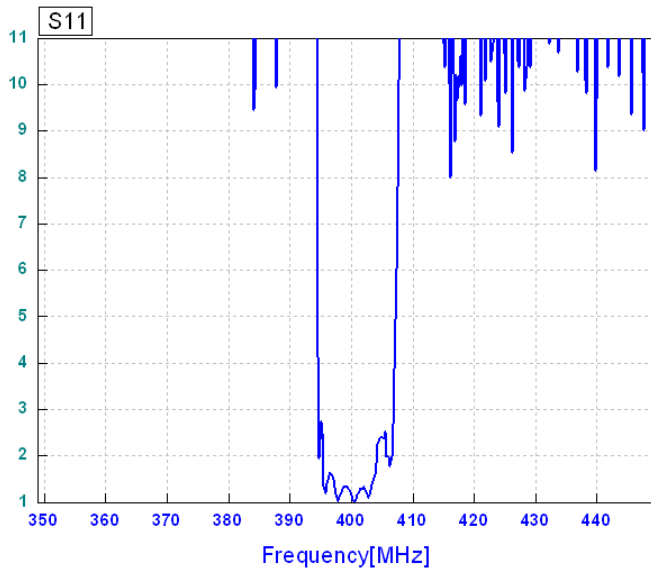
Source & Load Impedance: 50 Ω

## □ Frequency Characteristics

Frequency Response



### VSWR



### Smith Chart

