



*Total Solution Provider in Saw Device*

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# SA2535EM

WIRELESS , RF SAW Filter  
Revision 0: May 2008



- 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	-20	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
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

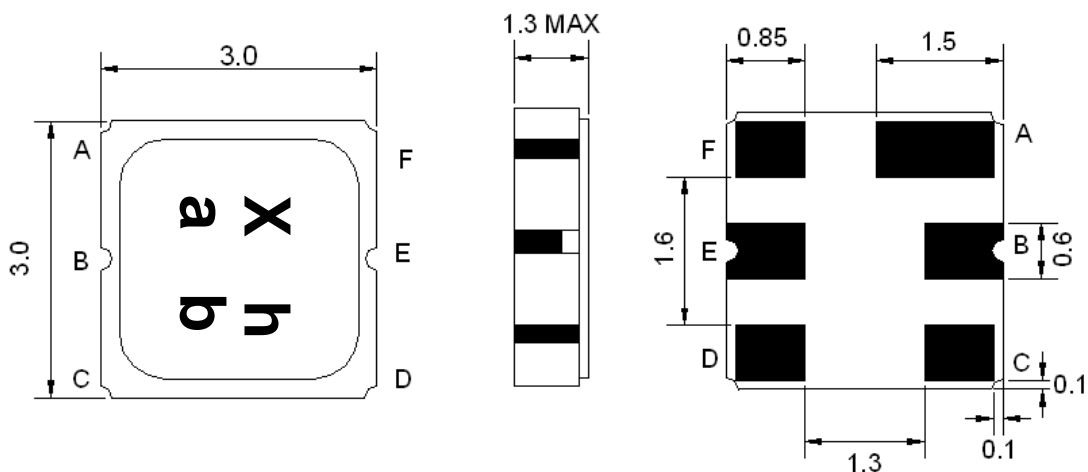
### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2535.0	-
Insertion Loss within 2500.0 ~ 2570.0 MHz	dB	-	2.5	3.5
Amplitude Ripple within 2500.0 ~ 2570.0 MHz	dB <sub>p-p</sub>	-	1.3	2.0
<b>Attenuation:</b>				
200.0 ~ 225.0 MHz	dB	30	42	-
D.C~ 2400.0 MHz	dB	23	32	-
2070.0 ~ 2110.0 MHz	dB	30	38	-
2110.0 ~ 2170.0 MHz	dB	35	40	-
2185.0 ~ 2260.0 MHz	dB	28	40	-
2390.0 ~ 2470.0 MHz	dB	5	10	-
VSWR within 2500.0 ~ 2570.0 MHz	-	-	1.8	2.3

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

(2) Insertion Loss is excluding PCB Loss. (PCB Loss, 0.2dB)

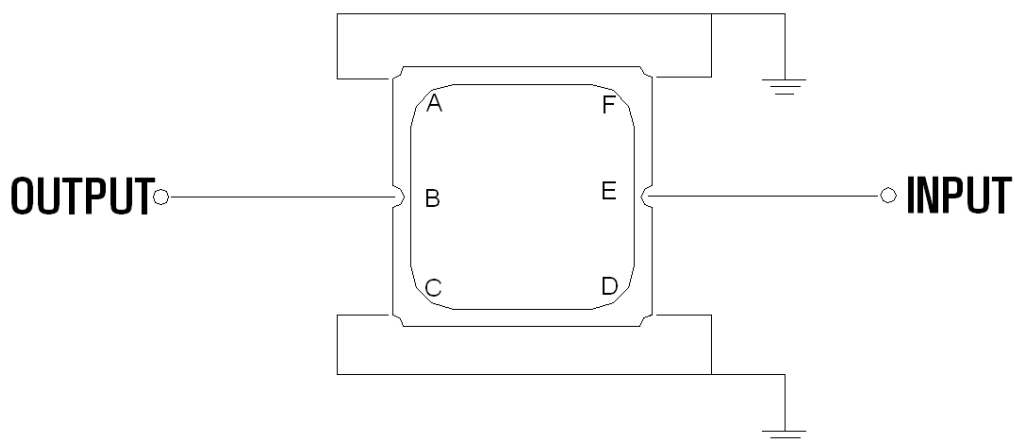
**□ Package Dimensions**



Marking Descriptions	
X	AWS Application
h	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

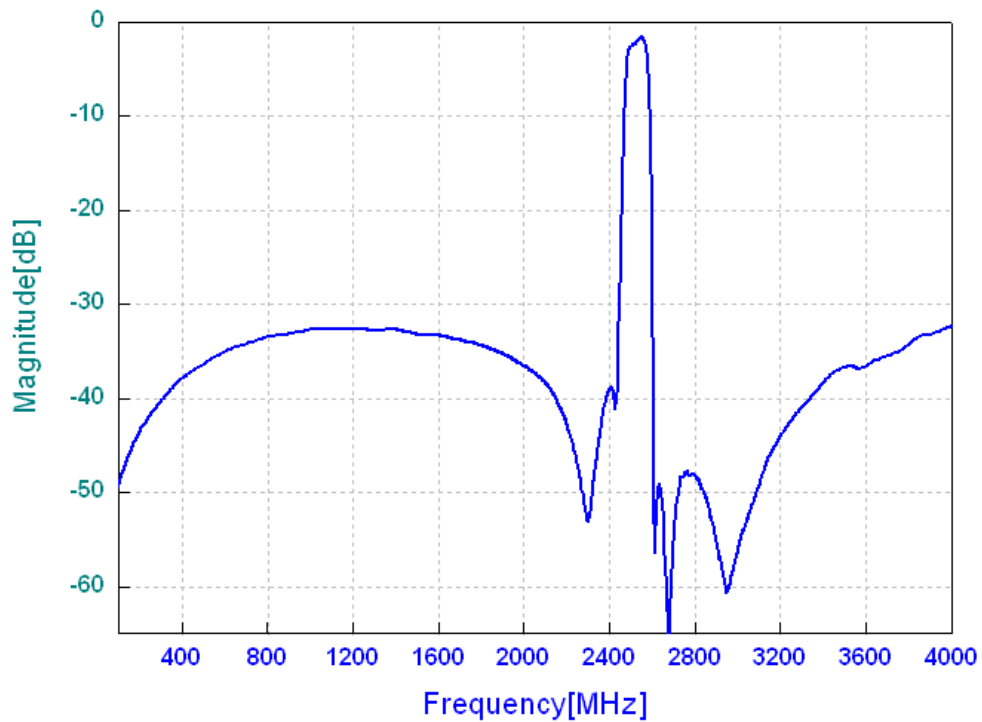
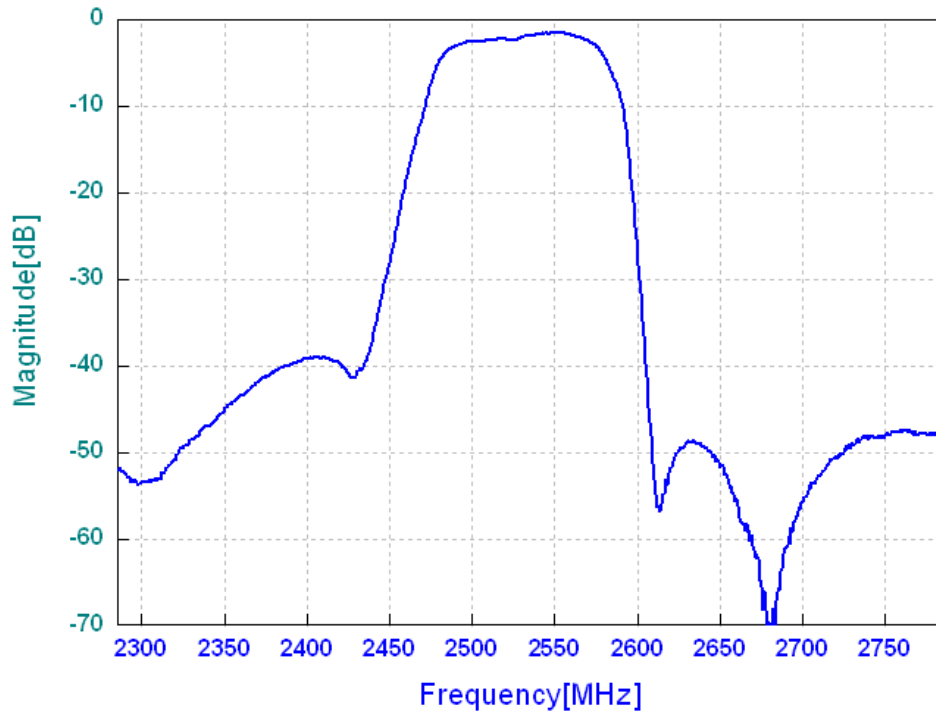
**□ Testing Environment**



Source & Load Impedance: 50 Ω

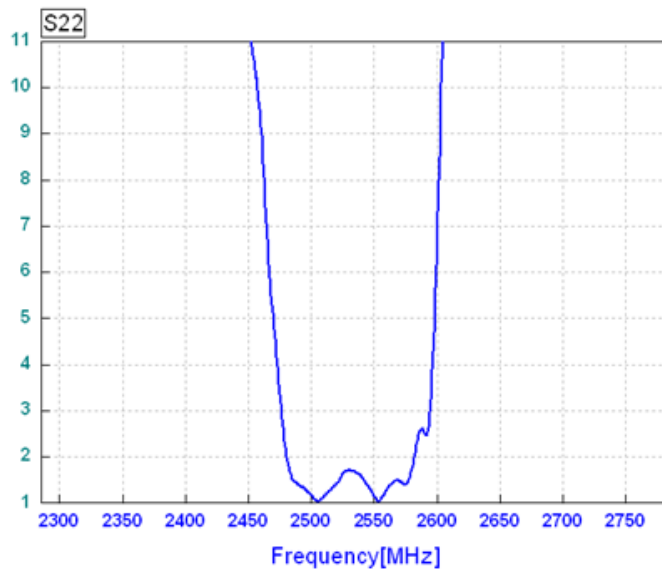
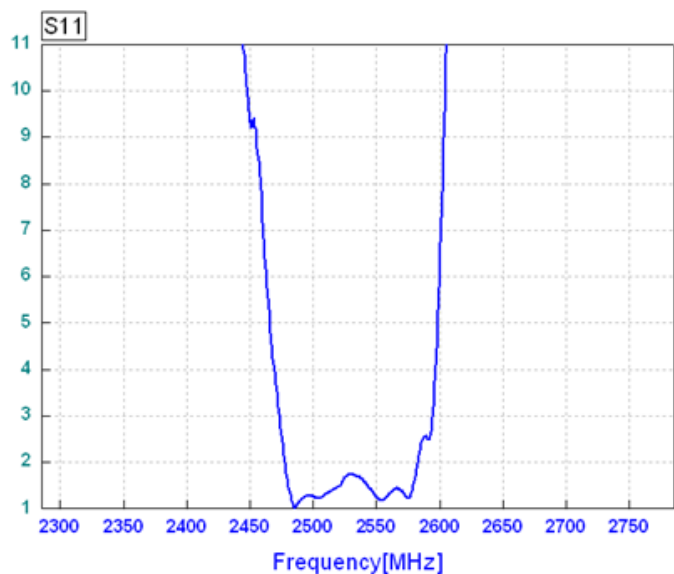
**□ Frequency Characteristics**

Frequency Response





VSWR



Smith Chart

