



*Total Solution Provider in Saw Device*

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# SA257AK

Wireless, RF SAW Filter  
Revision 0: June 2008



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

### Maximum Ratings

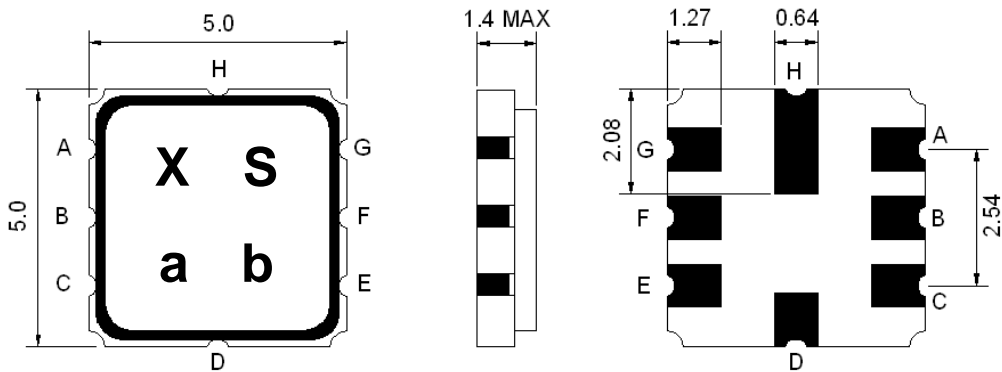
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+55
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	25
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	K			
Length x Width	mm <sup>2</sup>	-	5.0 x 5.0	-
Height	mm	-	-	1.4

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	257.5	-
Insertion Loss within 255.0 ~ 260.0 MHz	dB	-	2.3	3.5
<b>Stop Band Attenuation:</b>				
10.0 ~ 252.0 MHz	dB	25	30	-
263.0 ~ 266.0 MHz	dB	25	32	-
266.0 ~ 271.0 MHz	dB	30	40	-
271.0 ~ 300.0 MHz	dB	25	35	-
300.0 ~ 1000.0 MHz	dB	25	30	-
VSWR within 255.0 ~ 260.0 MHz	-	-	1.8	2.2

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

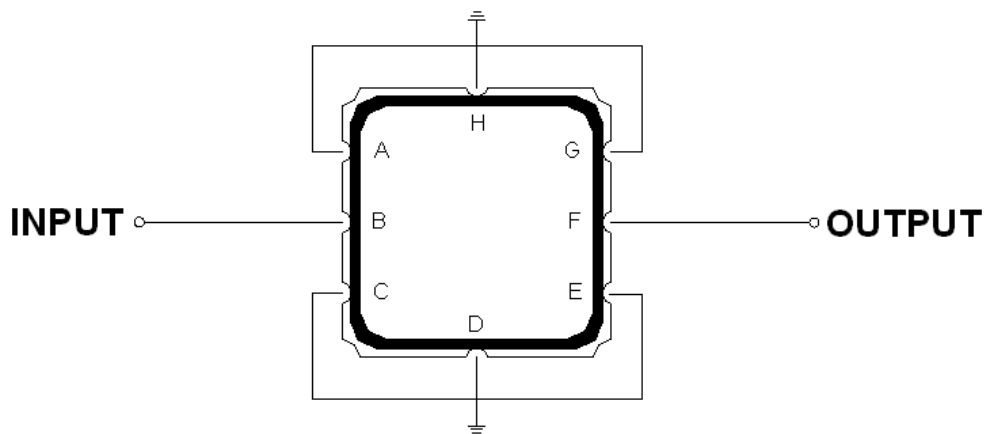
**□ Package Dimensions**



Marking Descriptions	
X	Wireless Application
S	Series Number
a	Date Code(Year)
b	Date Code(Month)

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

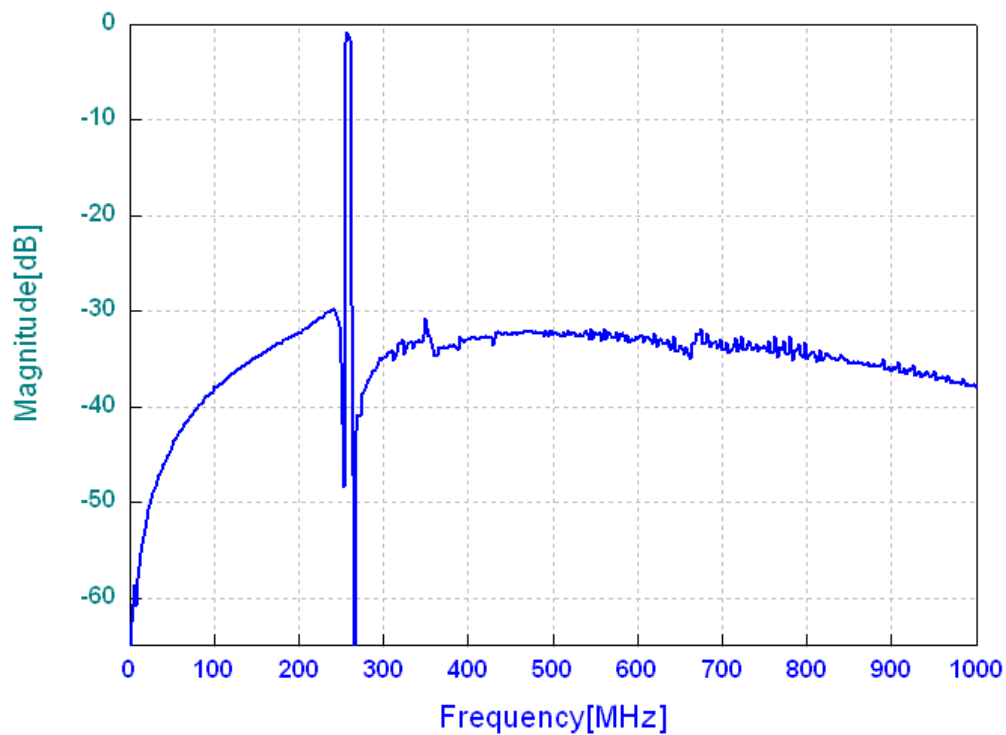
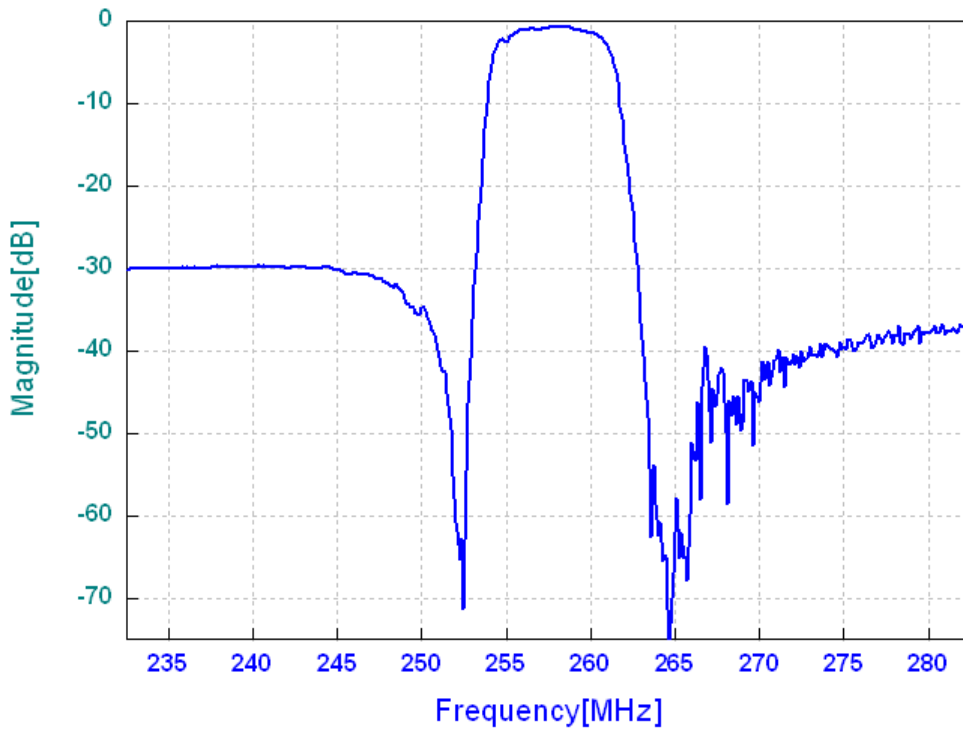
**□ Testing Environment**



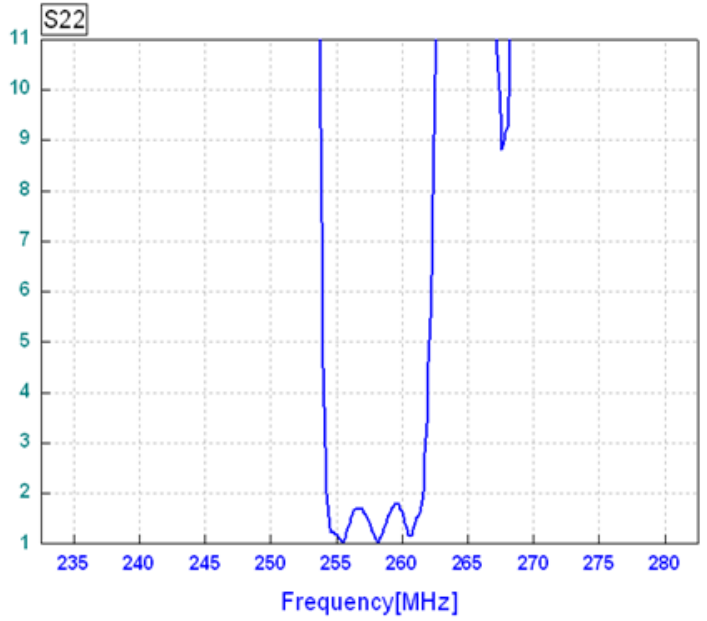
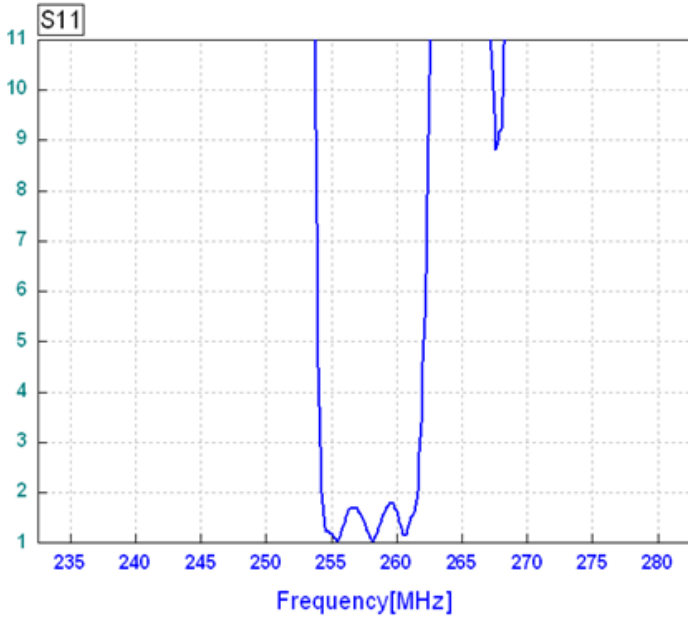
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



**VSWR**



**Smith Chart**

