



*Total Solution Provider in Saw Device*

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# SA2160AM

WCDMA, RF-Rx SAW Filter  
Revision 0: June 2005



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

### Maximum Ratings

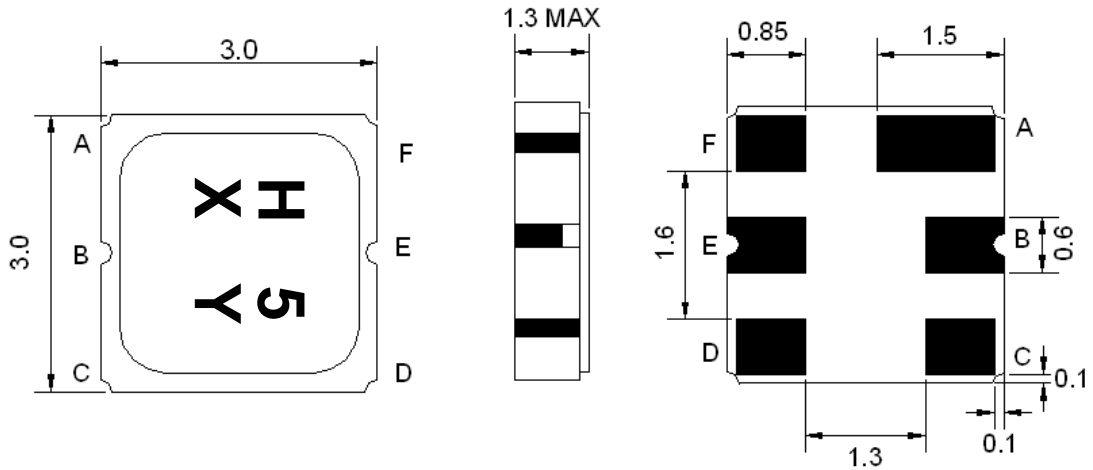
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-5	-	+70
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	7.5
Maximum Input Power	dBm	-	-	15
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	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	-	2140.0	-
Insertion Loss within 2130 ~ 2150 MHz	dB	-	2.3	3.5
Amplitude Ripple within 2130 ~ 2150 MHz	dB <sub>p-p</sub>	-	0.5	1.5
<b>Attenuation:</b>				
D.C. ~ 500 MHz	dB	21	35	-
500 ~ 1900 MHz	dB	20	30	-
1900 ~ 2050 MHz	dB	25	34	-
2070 MHz	dB	38	42	-
2240 ~ 2300 MHz	dB	25	38	-
2300 ~ 4500 MHz	dB	20	28	-
VSWR within 2130 ~ 2150 MHz	-	-	1.7	2.3

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

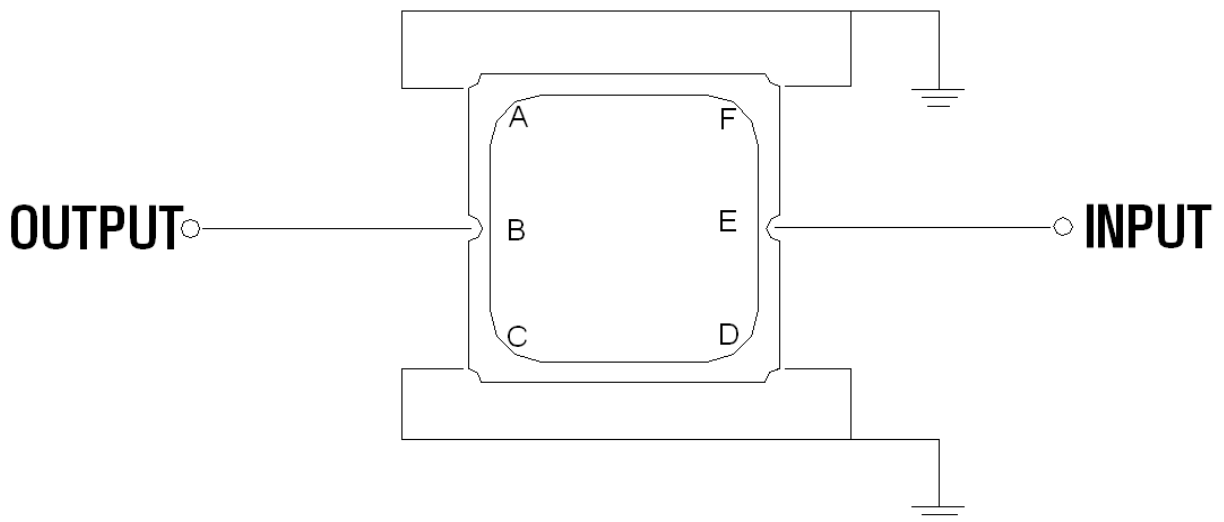
**□ Package Dimensions**



Marking Descriptions	
H	WCDMA Application
5	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

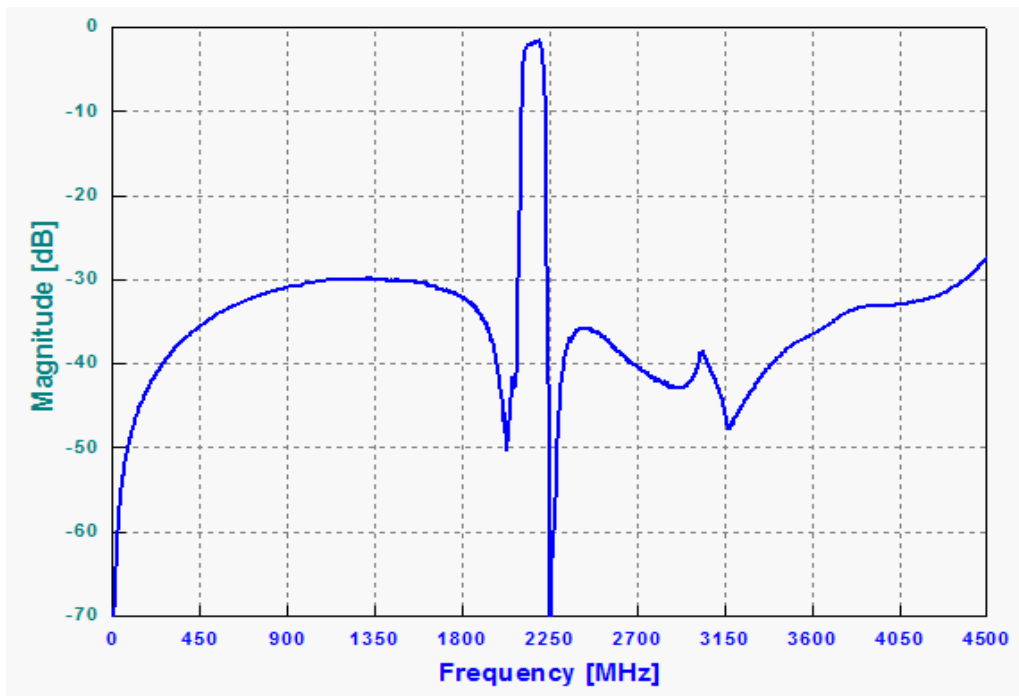
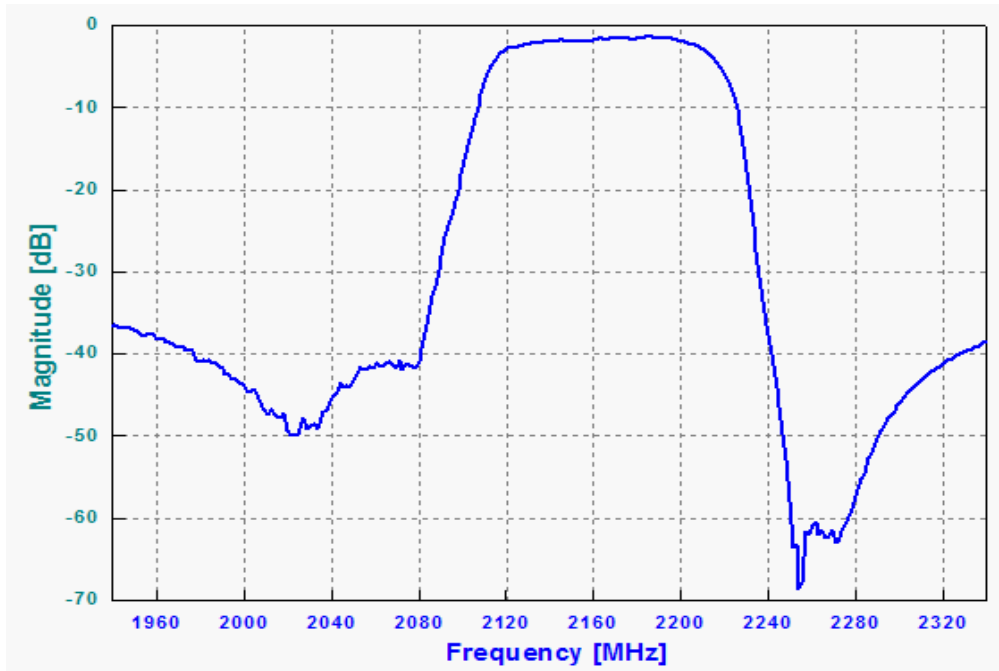
**□ Testing Environment**



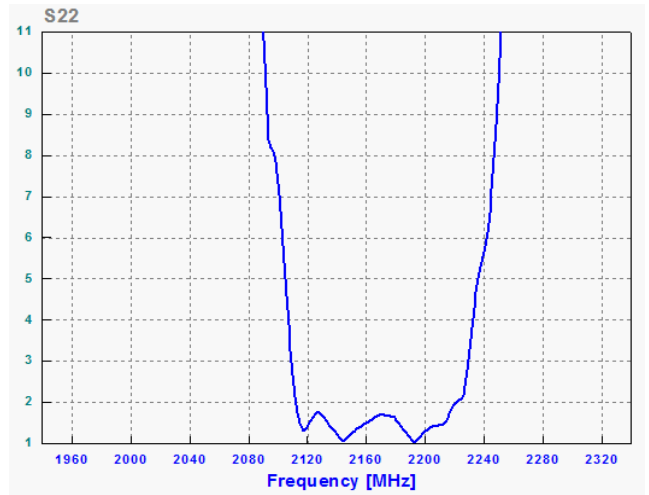
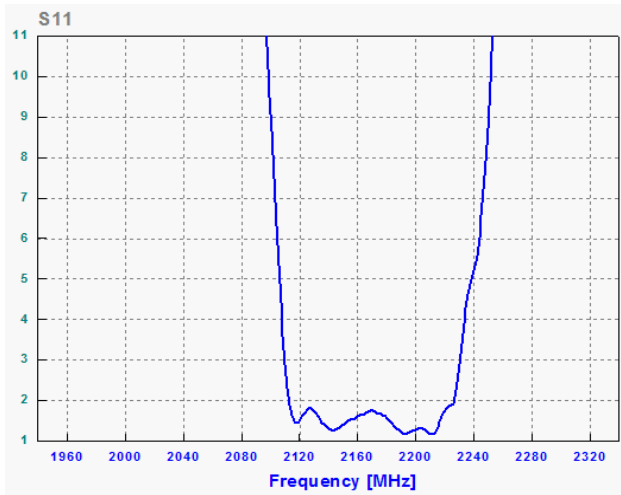
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### VSWR



### Smith Chart

