



*Total Solution Provider in Saw Device*

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# SA1950CM1

WCDMA, RF-Tx SAW Filter  
Revision 0: March 2007



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

### Maximum Ratings

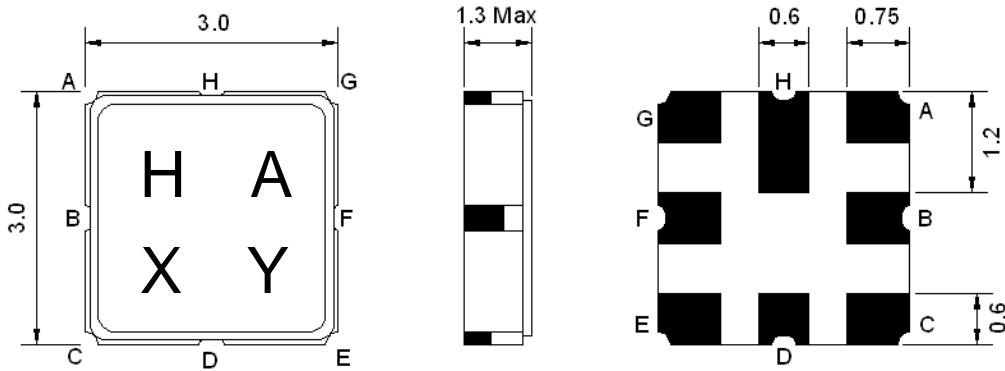
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-20	-	+75
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	M1			
Length x Width	-	-	3.0 x 3.0	-
Height	mm	-	-	1.3

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1950.0	-
Insertion Loss within 1932.5 ~ 1967.5 MHz	dB	-	1.6	3.0
Amplitude Ripple within 1932.5 ~1967.5 MHz	dB <sub>p-p</sub>	-	0.5	1.5
Group Delay Ripple within 1932.5 ~ 1967.5 MHz	ns <sub>p-p</sub>	-	7.0	16
<b>Attenuation:</b>				
D.C. ~ 1780.0 MHz	dB	25	30	-
1780.0 ~ 1880.0 MHz	dB	30	35	-
2025.0 ~ 2140.0 MHz	dB	30	40	-
2140.0 ~ 3245.0 MHz	dB	25	30	-
3245.0 ~ 4000.0 MHz	dB	20	25	-
VSWR within 1932.5 ~ 1967.5 MHz	-	-	1.8	2.4

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

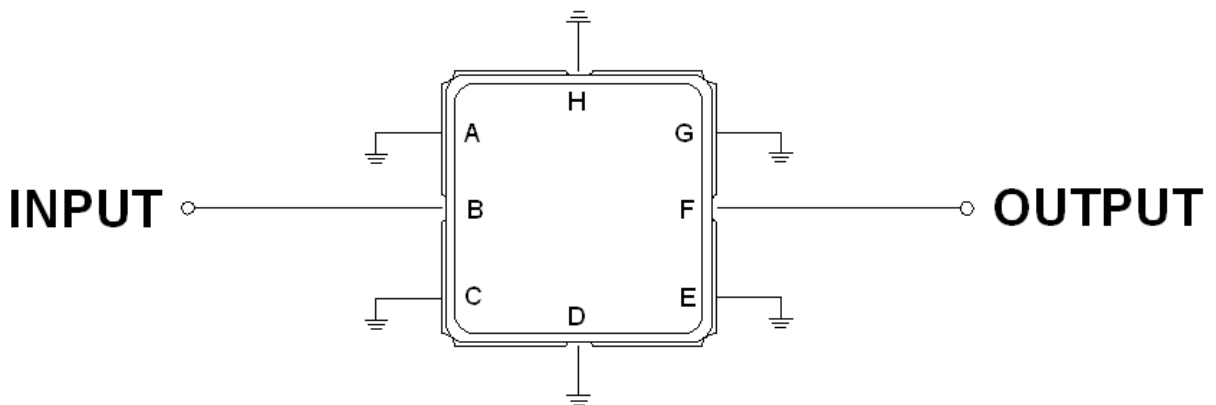
**Package Dimensions**



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

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

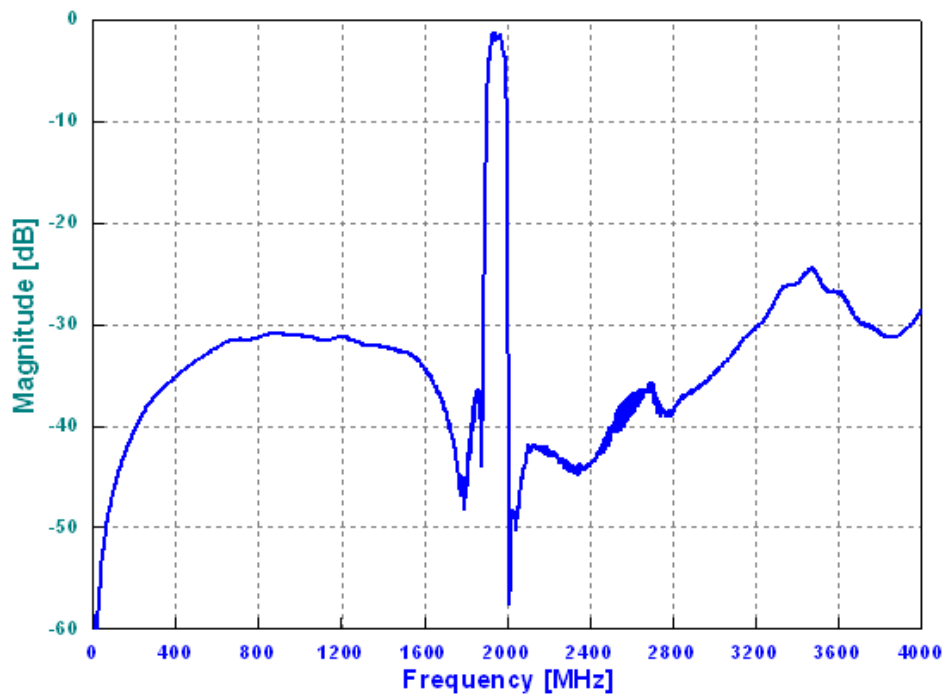
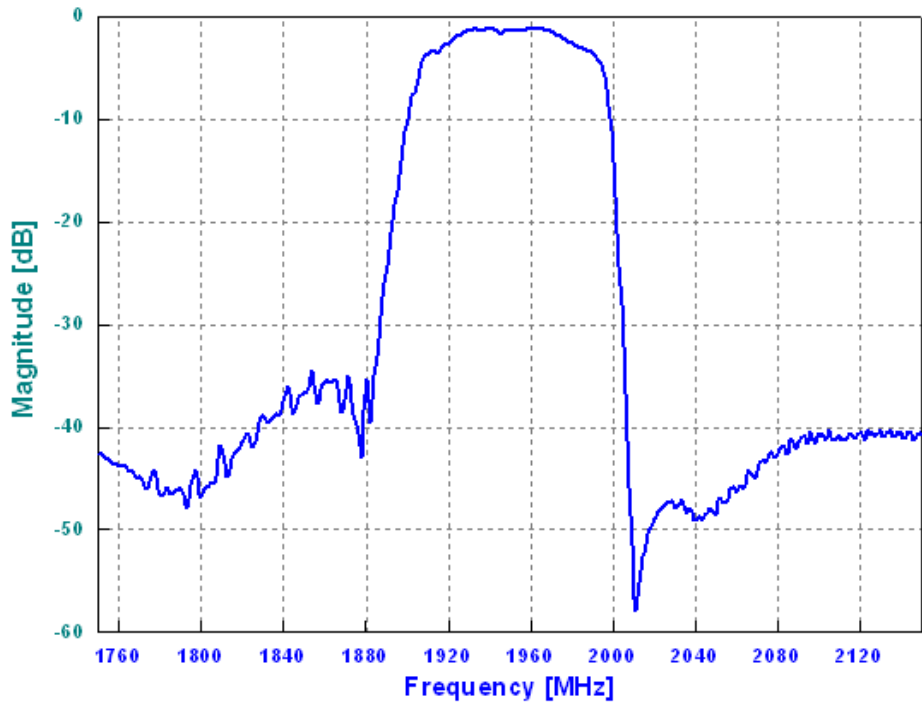
**Testing Environment**



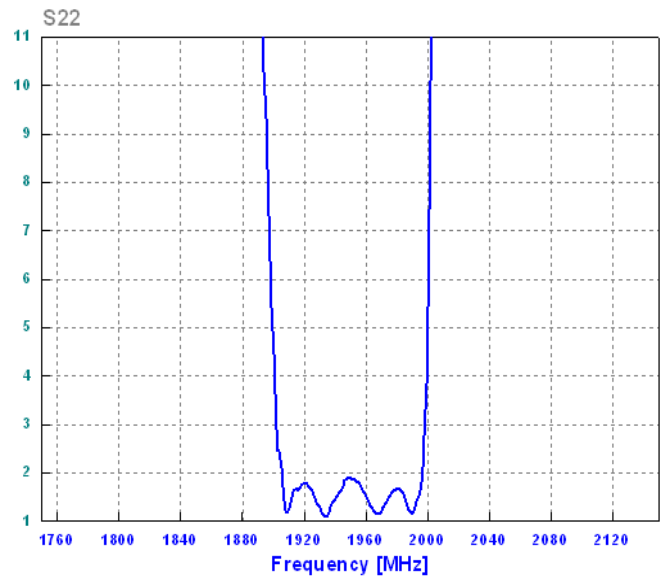
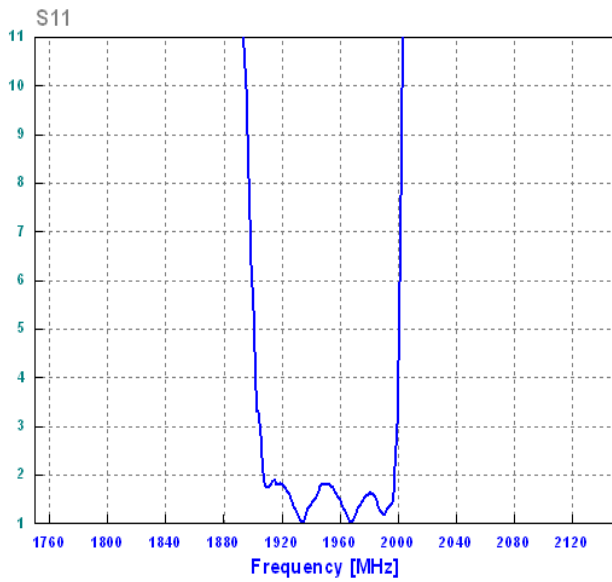
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



VSWR



Smith Chart

