



*Total Solution Provider in Saw Device*

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# SA1220BM1

Wireless, Balanced RF SAW Filter  
Revision 0: April 2005



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

**Maximum Ratings**

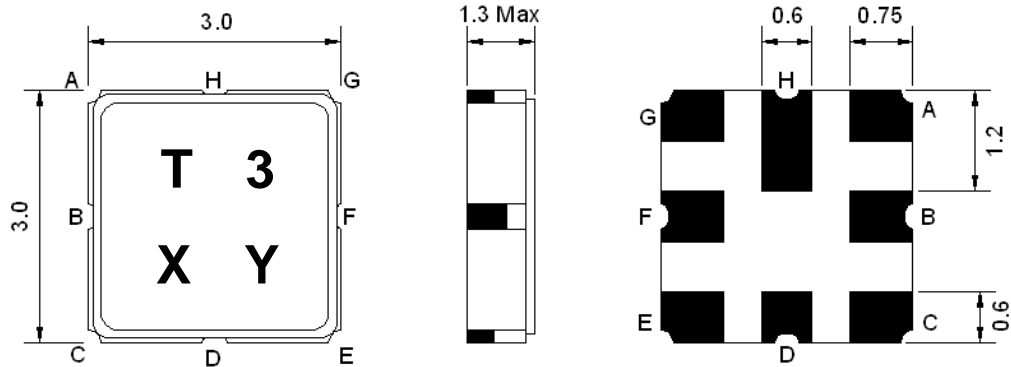
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	3
Maximum Input Power	dBm	-	-	0
Source Impedance (Balanced ended) <sup>(1)</sup>	Ω	-	200	-
Load Impedance (Balanced ended) <sup>(1)</sup>	Ω	-	200	-
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	-	1220.0	-
Insertion Loss within 1206.0 ~ 1234.0 MHz	dB	-	4.0	5.7
Amplitude Ripple within 1206.0 ~ 1234.0 MHz	dB <sub>p-p</sub>	-	1.9	3.5
Group Delay Ripple within 1206.0 ~ 1234.0 MHz	ns <sub>p-p</sub>	-	15	-
<b>Attenuation:</b>				
300.0 ~ 1118.0 MHz	dB	40	59	-
1118.0 ~ 1146.0 MHz	dB	45	60	-
1300.0 ~ 2000.0 MHz	dB	45	59	-

**Notes :** (1) With Matching Network ns

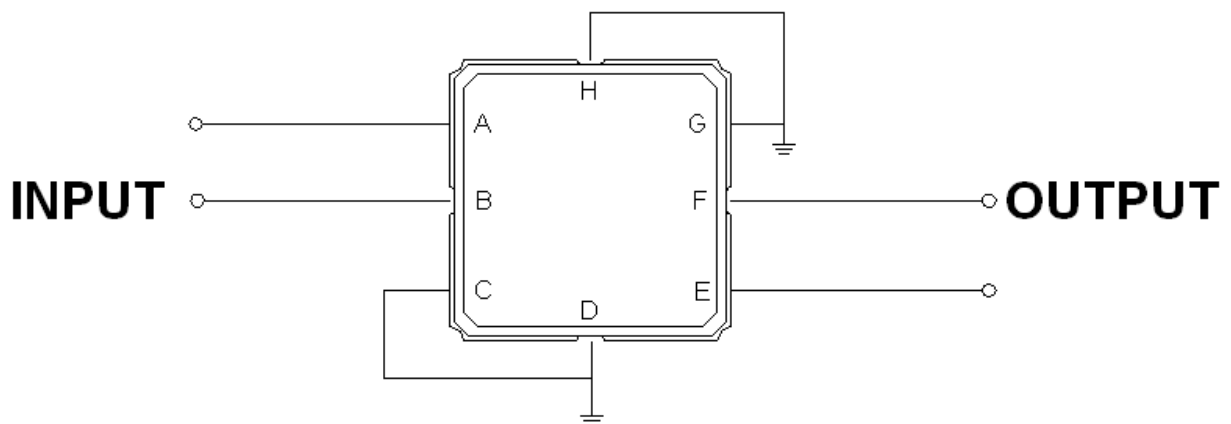
**Package Dimensions**



Marking Descriptions	
T	CA-TV Application
3	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

**Testing Environment**

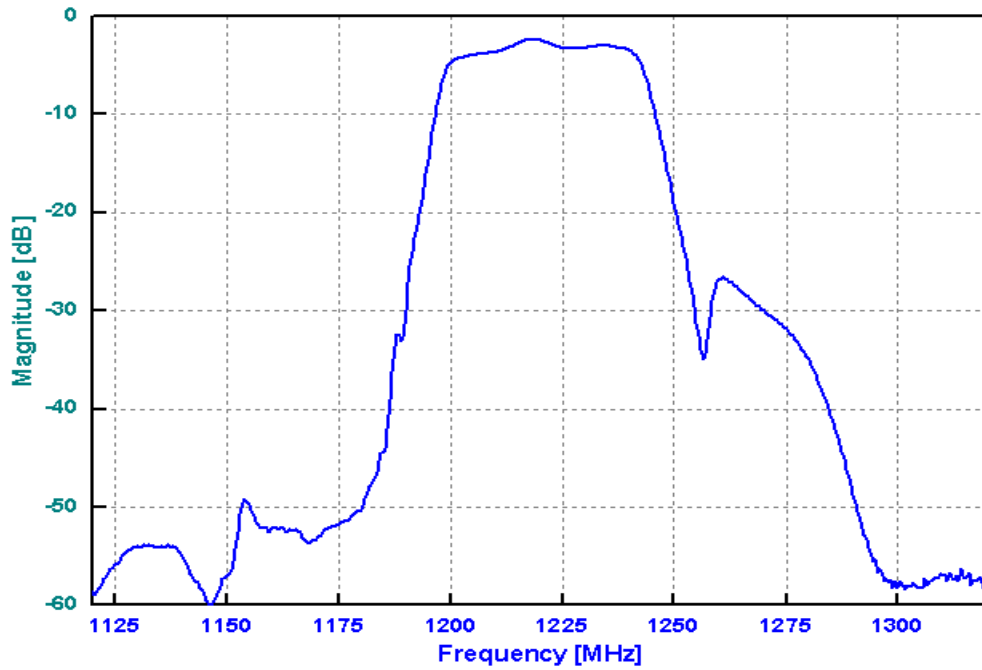


Source Impedance : 200 Ω

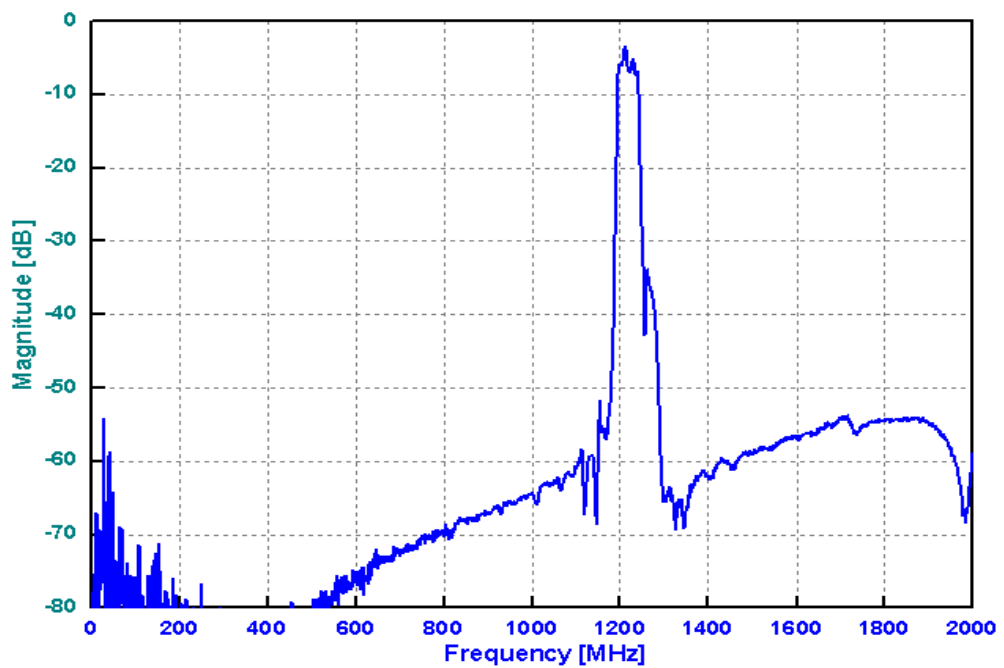
Load Impedance : 200 Ω

## □ Frequency Characteristics

Frequency Response

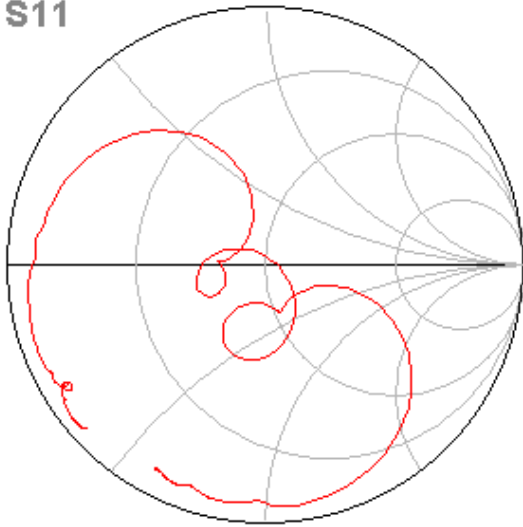


Wide Band



## Smith Chart

S11



S22

