



*Total Solution Provider in Saw Device*

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# SA1575GJ

GPS, RF SAW Filter  
Revision 0: June 2005



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

**Maximum Ratings**

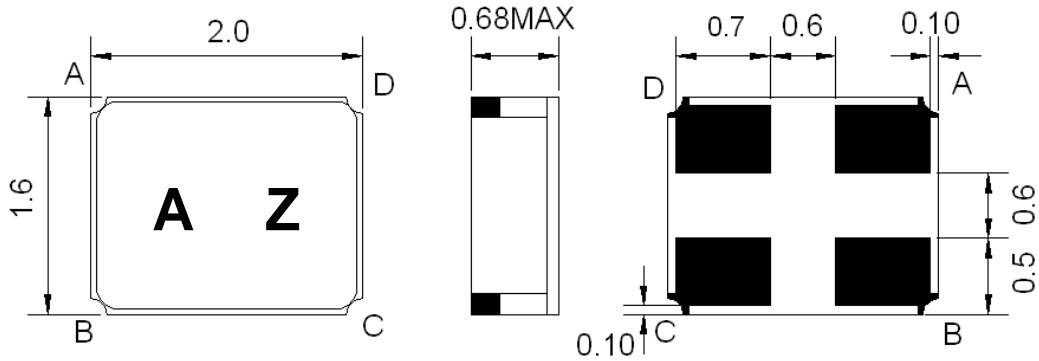
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	J			
Length x Width	mm <sup>2</sup>	-	2.0 x 1.6	-
Height	mm	-	-	0.68

**Electrical Specification**

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1575.42	-
Insertion Loss within 1574.42~1576.42MHz	dB	-	1.7	2.2
Amplitude Ripple within 1574.42~1576.42MHz	dB <sub>p-p</sub>	-	0.1	1.0
<b>Attenuation:</b>				
D.C. ~ 1400 MHz	dB	35	37	-
1400 ~ 1475 MHz	dB	35	38	-
1475 ~ 1525 MHz	dB	30	35	-
1625 ~ 1640 MHz	dB	40	55	-
1640 ~ 2000 MHz	dB	35	40	-
2000 ~ 3000 MHz	dB	25	29	-
VSWR within 1574.42~1576.42MHz	-	-	1.15	2.0

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

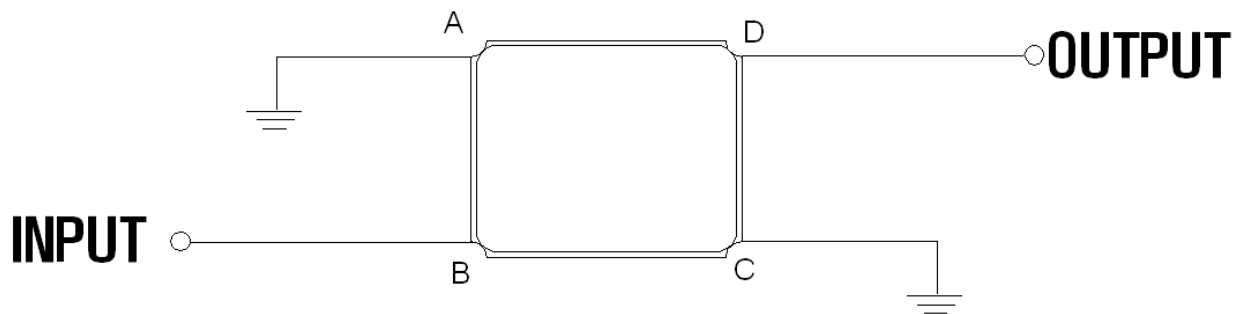
**Package Dimensions**



Marking Descriptions	
A	Series Number
Z	Date Code(Year+month)

Pin Description	
A, C	Ground
B	In
D	Out

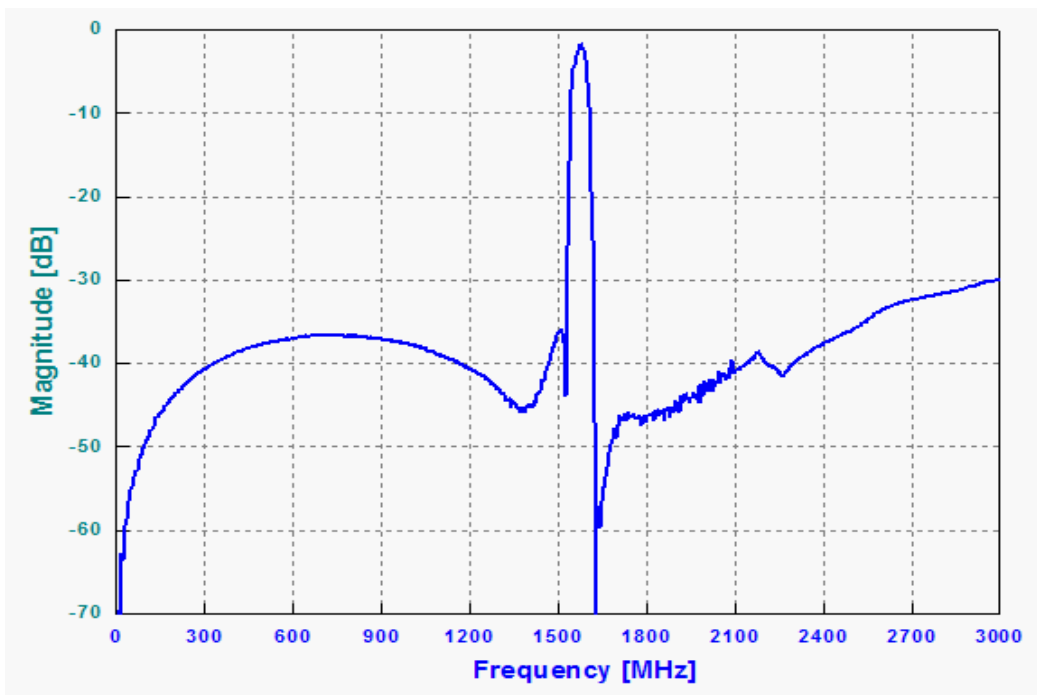
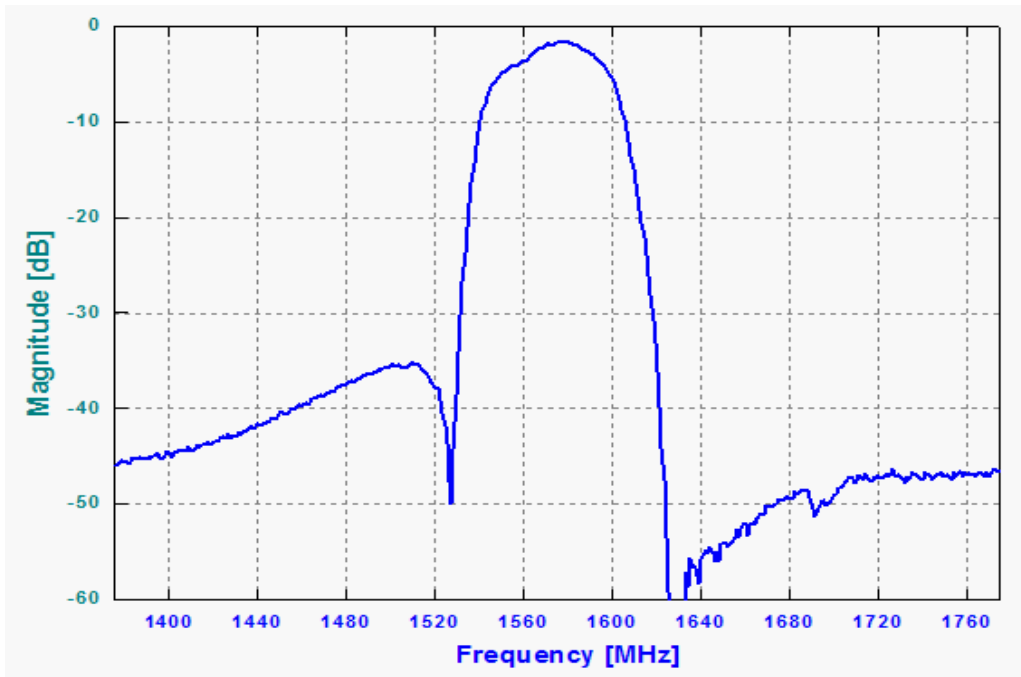
**Testing Environment**



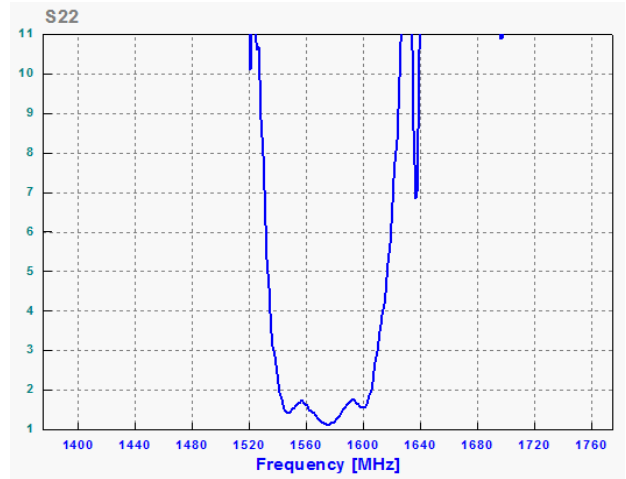
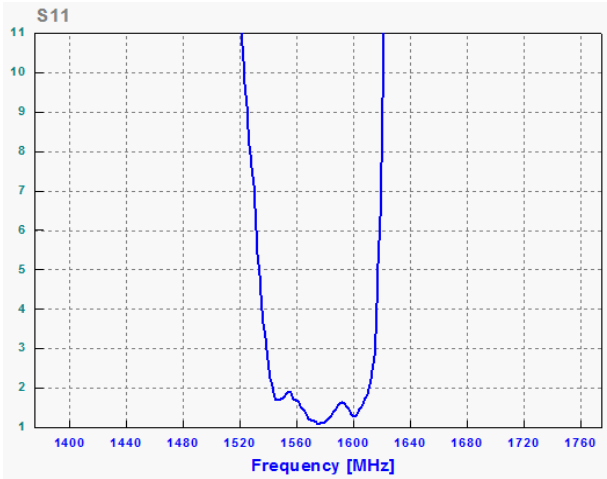
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### VSWR



### Smith Chart

