



*Total Solution Provider in Saw Device*

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# SA1575DL

GPS, RF SAW Filter

Revision 0: November 2003



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

### Maximum Ratings

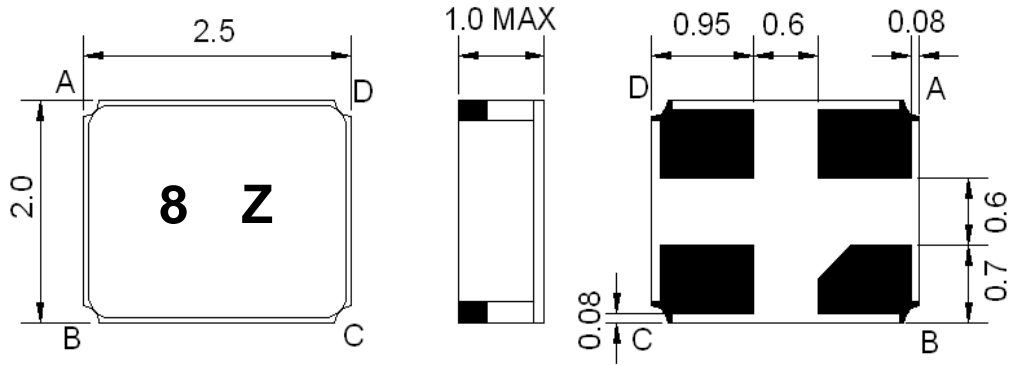
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	7.5
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Load Impedance (single ended) <sup>(1)</sup>	Ω	-	50	-
Package type & size	L			
Length x Width	mm <sup>2</sup>	-	2.5 x 2.0	-
Height	mm	-	-	1.0

### Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1575.42	-
Insertion Loss within 1574.42 ~ 1576.42 MHz	dB	-	1.0	1.5
Amplitude Ripple within 1574.42 ~ 1576.42 MHz	dB <sub>p-p</sub>	-	0.1	0.5
<b>Attenuation:</b>				
D.C. ~ 1429 MHz	dB	19	21	-
1429 ~ 1501 MHz	dB	23	26	-
1501 ~ 1526 MHz	dB	20	25	-
1625 ~ 1650 MHz	dB	15	30	-
1650 ~ 2200 MHz	dB	21	25	-
2200 ~ 2500 MHz	dB	21	25	-
VSWR within 1574.42 ~ 1576.42 MHz	-	-	1.1	1.5

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

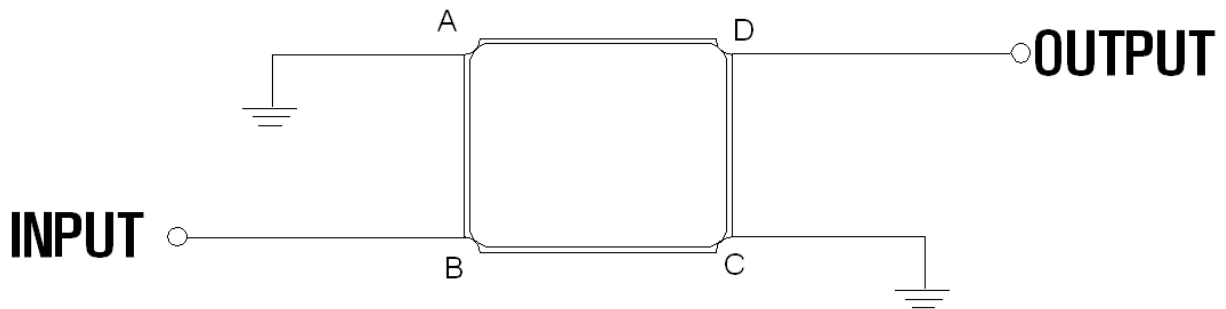
**Package Dimensions**



Marking Descriptions	
8	Series Number
Z	Data Code(Year+Month)

Pin Description	
A, C	Ground
B	In
D	Out

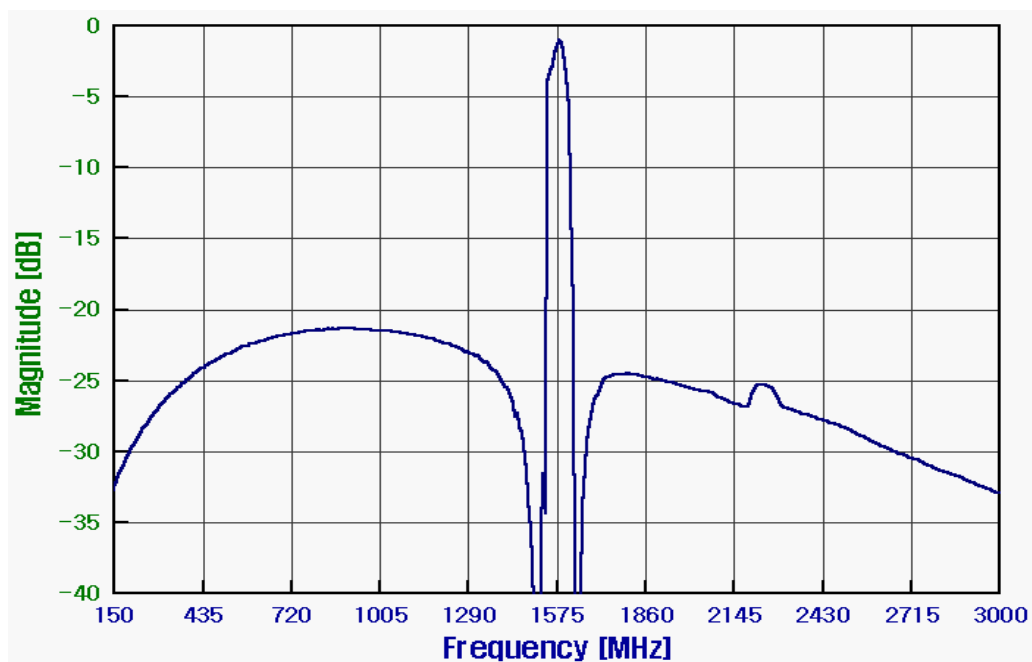
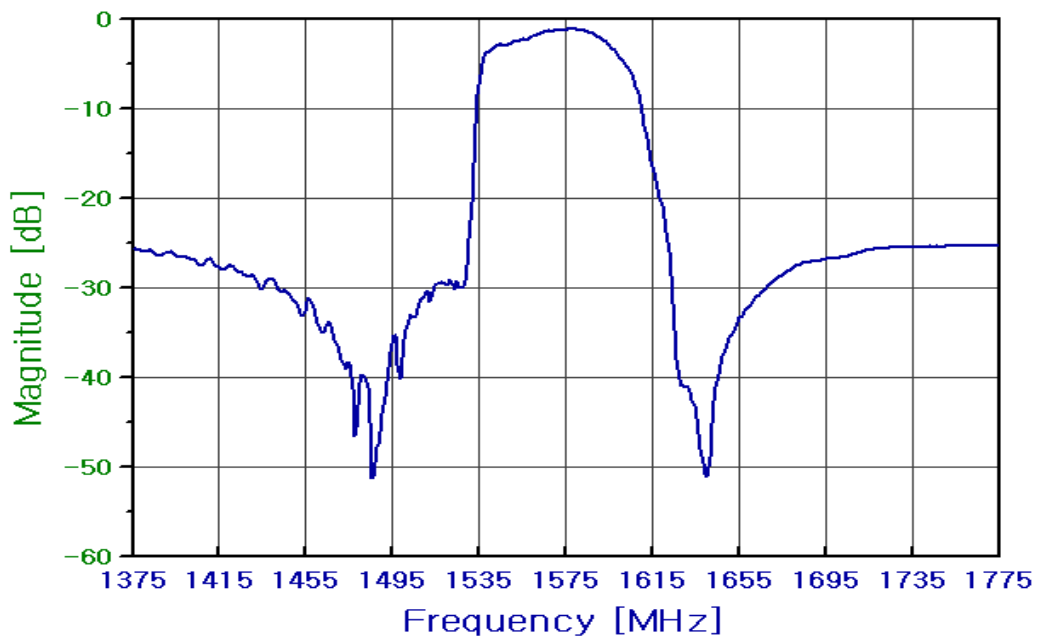
**Testing Environment**



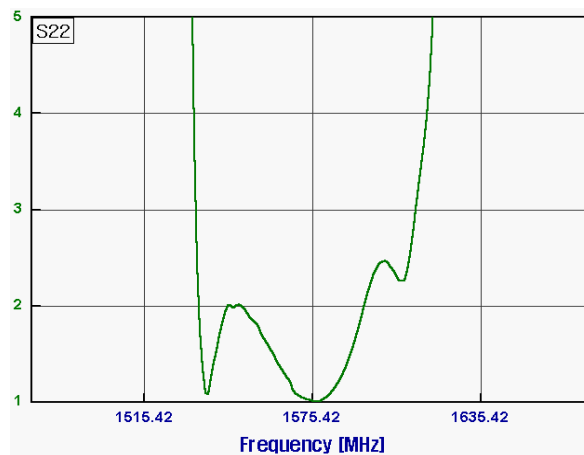
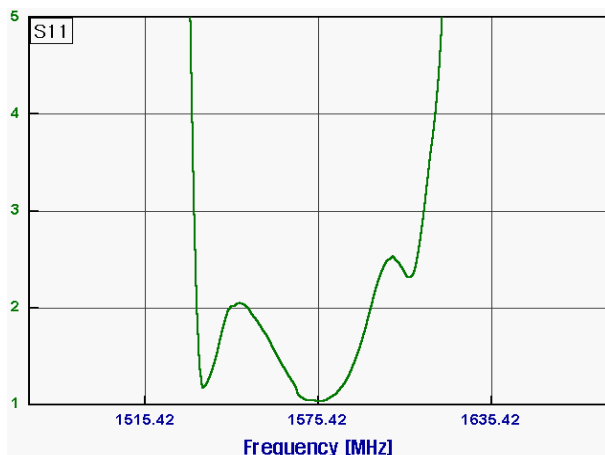
Source & Load Impedance: 50 Ω

**□ Frequency Characteristics**

Frequency Response



### VSWR



### Smith Chart

S11

