



Total Solution Provider in Saw Device

SA1575DJ

GPS, RF SAW Filter
Revision 0: May 2005



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

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□ Electrical Characteristics

Maximum Ratings

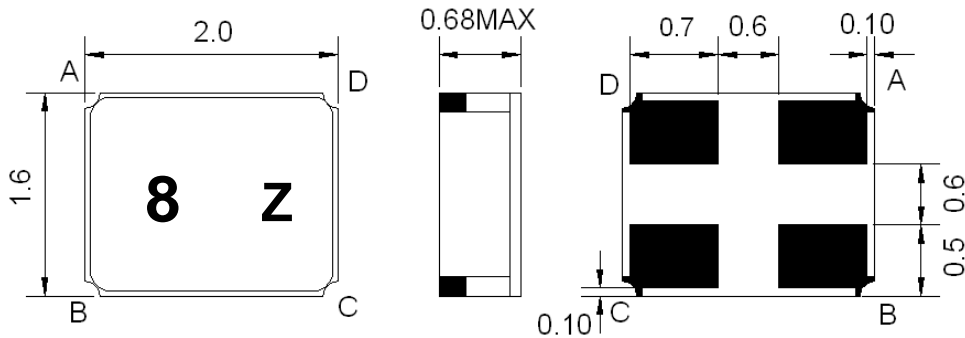
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	7.5
Maximum Input Power	dBm	-	-	20
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	J			
Length x Width	mm ²	-	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 ~ 1576.42 MHz	dB	-	1.0	1.5
Amplitude Ripple within 1574.42 ~ 1576.42 MHz	dB _{p-p}	-	0.1	0.5
Attenuation:				
D.C. ~ 1429 MHz	dB	19	21	-
1429 ~ 1501 MHz	dB	23	26	-
1501 ~ 1520 MHz	dB	20	28	-
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)

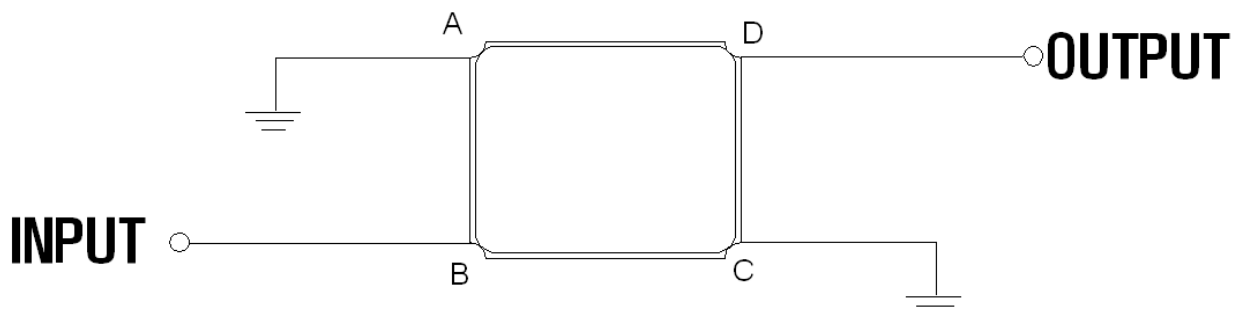
Package Dimensions



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

Pin Description	
A, C	Ground
B	In
D	Out

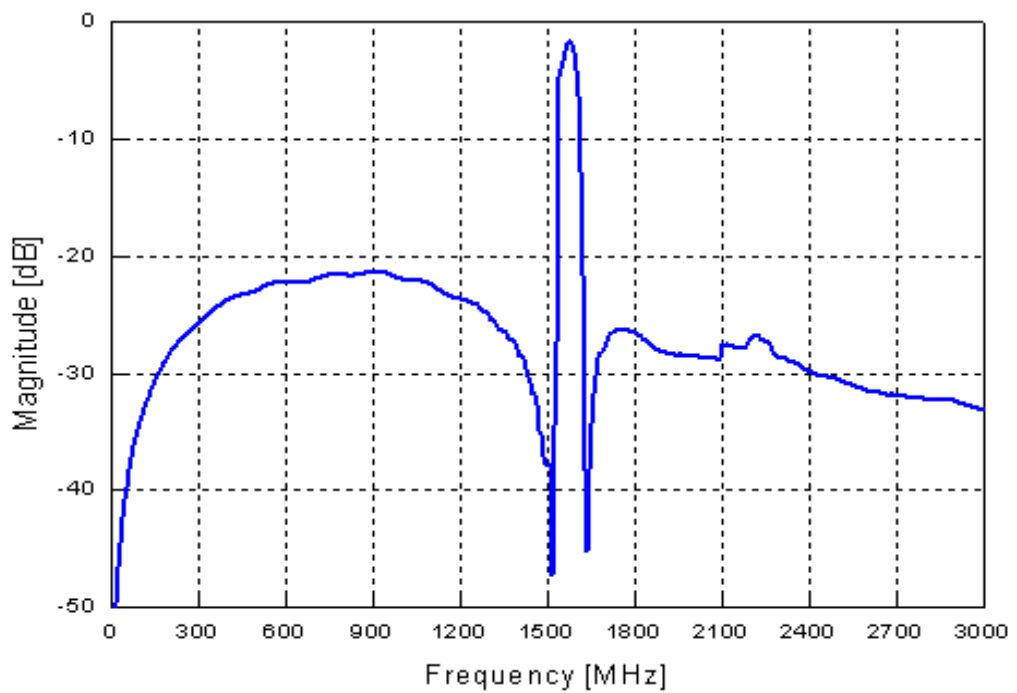
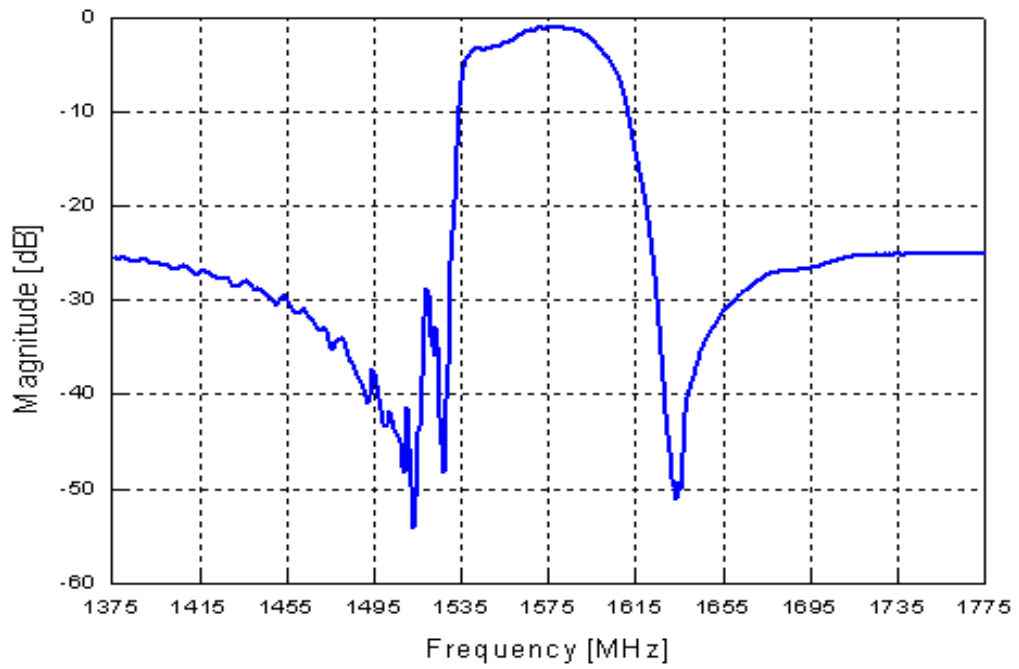
Testing Environment



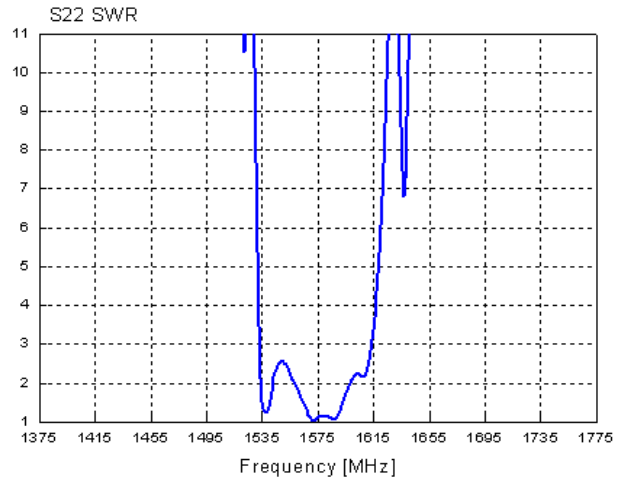
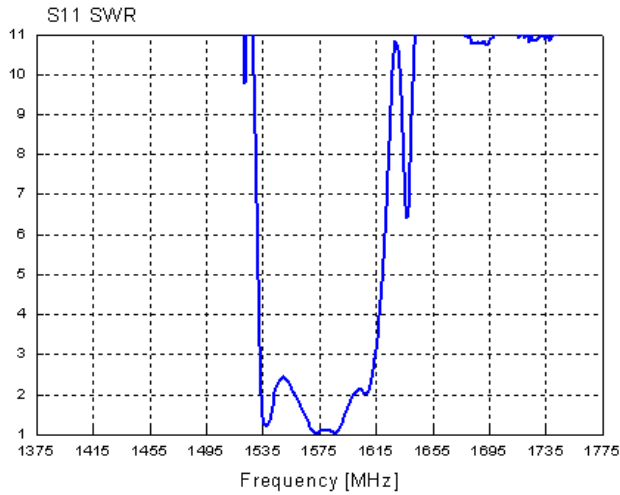
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



VSWR



Smith Chart

