



Total Solution Provider in Saw Device

SA1209AM

GPS , RF SAW Filter
Revision 0: July 2008



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

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□ Electrical Characteristics

Maximum Ratings

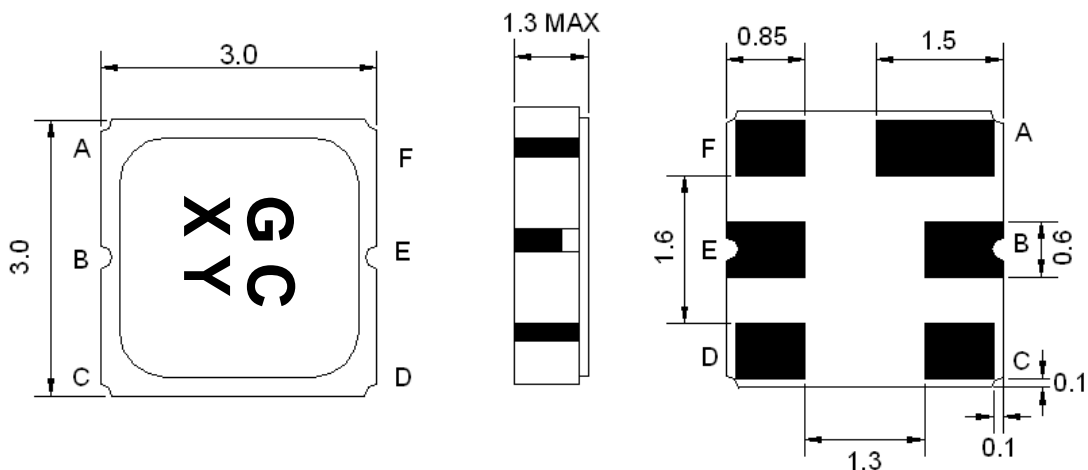
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-40	-	+85
Storage Temperature Range	°C	-40	-	+85
Maximum DC Voltage	V	-	-	0
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
Length x Width	mm ²	-	3.0 x 3.0	-
Height	mm	-	-	1.3

Electrical Specification

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	1209.5	-
Insertion Loss within 1166.0 ~ 1253.0 MHz	dB	-	3.9	5.0
Amplitude Ripple within 1166.0 ~ 1253.0 MHz	dB _{p-p}	-	1.8	3.0
Group Delay Ripple within 1166.0~1253.0 MHz	ns _{p-p}	-	7	12
Return Loss within 1166.0~1253.0 MHz	dB	8	12	-
Attenuation:				
D.C ~ 1000.0 MHz	dB	23	25	-
1297.0 ~ 2000.0 MHz	dB	25	28	-

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

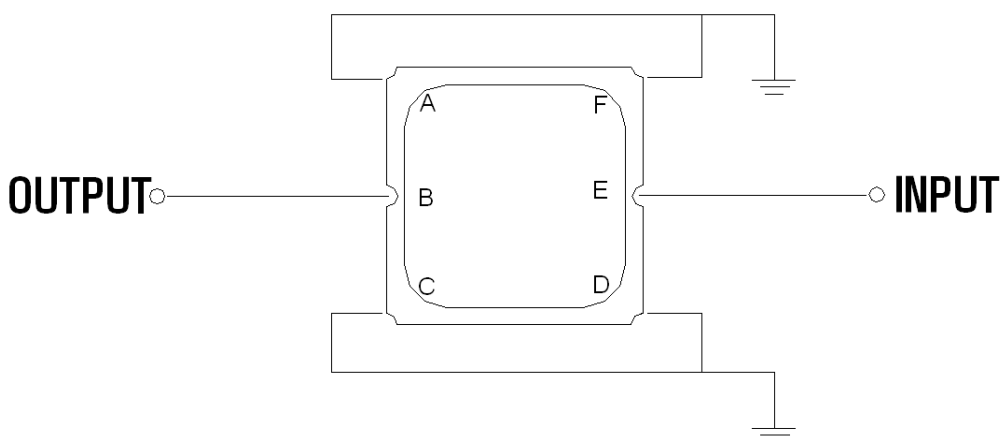
Package Dimensions



Marking Descriptions	
G	AWS Application
C	Series Number
X	Date Code(Year)
Y	Date Code(Month)

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

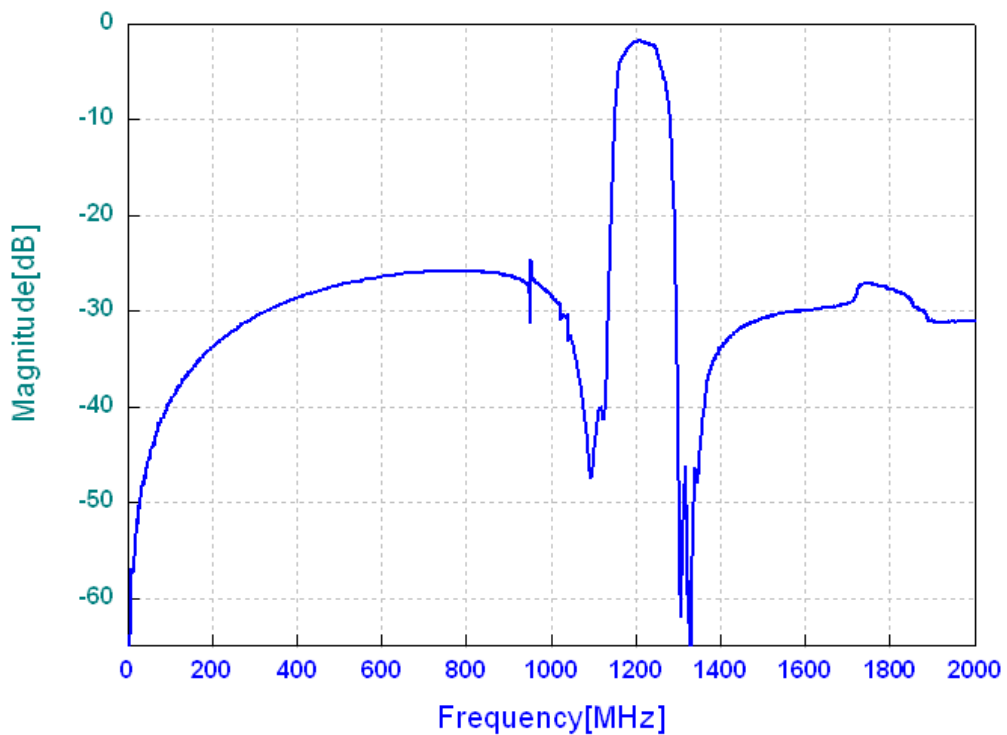
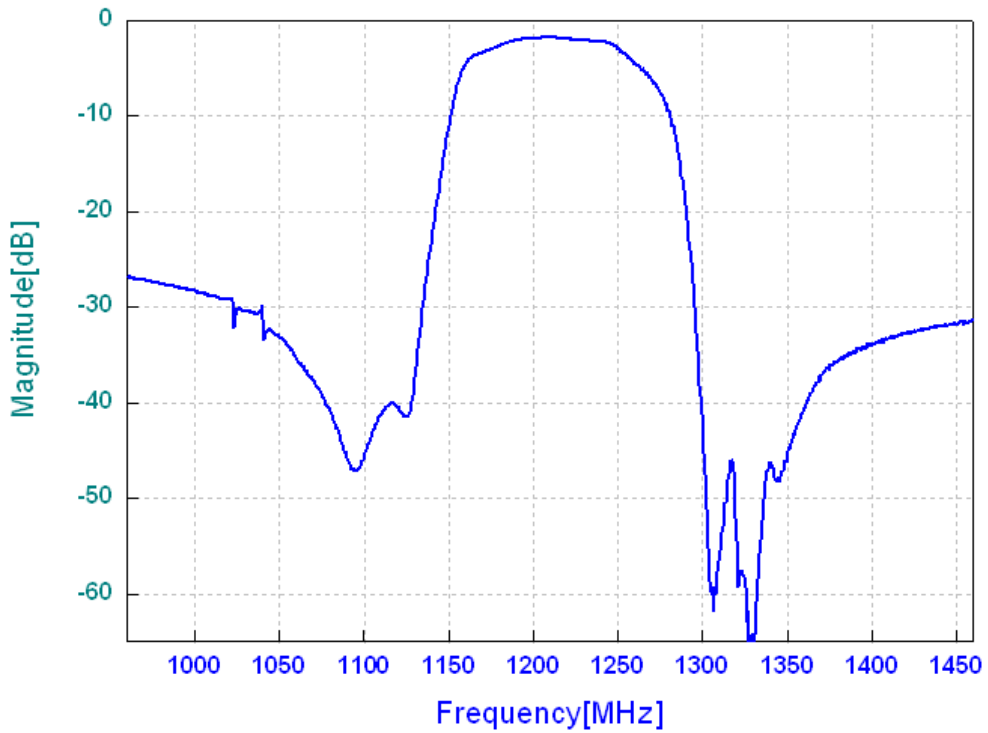
Testing Environment



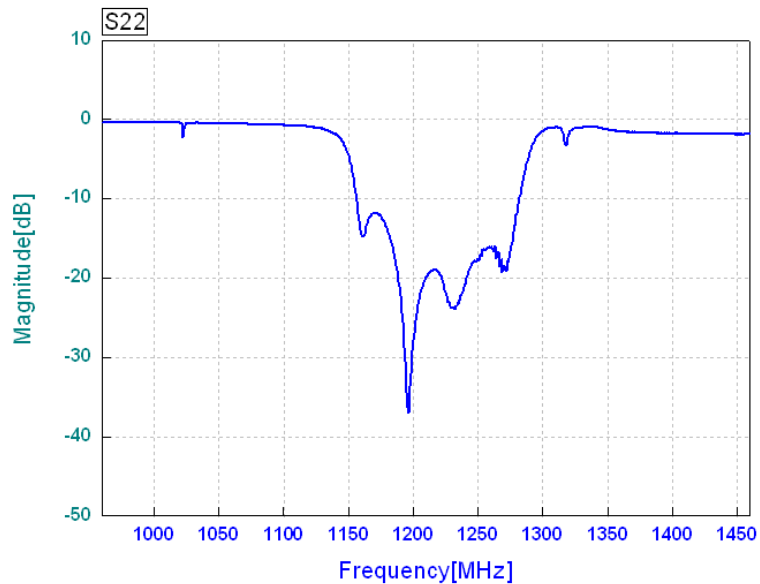
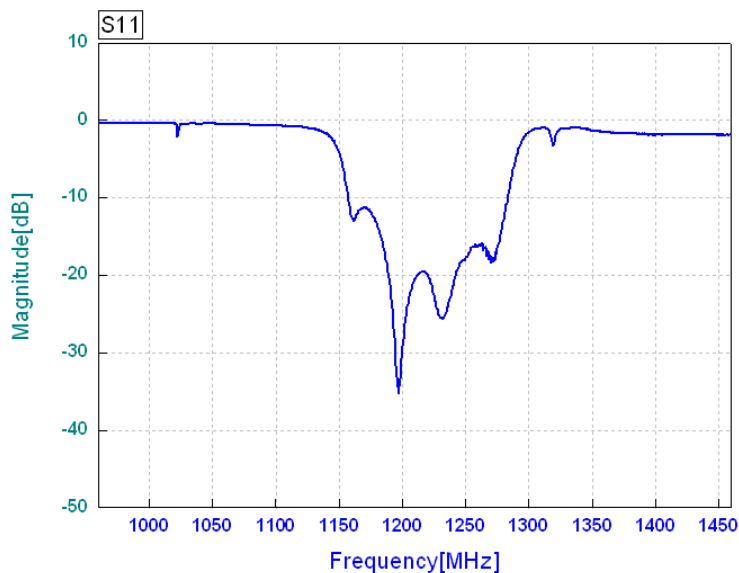
Source & Load Impedance: 50 Ω

□ Frequency Characteristics

Frequency Response



Return Loss



Smith Chart

