



Total Solution Provider in Saw Device

SA1575UM

GPS, RF SAW Filter

Revision 0: September, 2009



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

SAWNICS Inc.

460 Cheonheung-ri, Seonggeo-eup, Cheonan-si, Chungcheongnam-do, 330-836 / Korea.
Tel: +82 41 550 9372 / Fax: +82 41 550 9399 / www.sawnics.com

□ Electrical Characteristics

Maximum Ratings

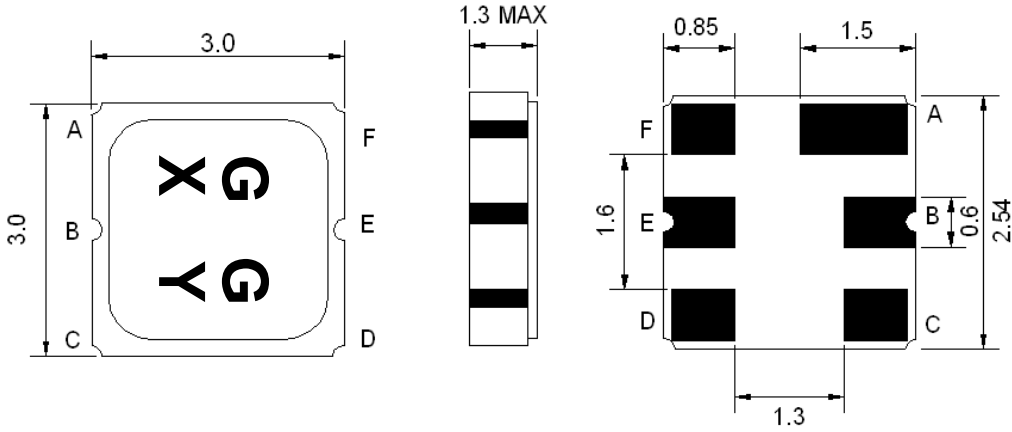
Parameters Description	Unit	Minimum	Typical	Maximum
Operating Temperature Range	°C	-30	-	+85
Storage Temperature Range	°C	-50	-	+100
Maximum DC Voltage	V	-	-	5
Maximum Input Power	dBm	-	-	10
Source Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Load Impedance (single ended) ⁽¹⁾	Ω	-	50	-
Package type & size	M			
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	-	1575.42	-
Insertion Loss within 1574.42 ~ 1576.42MHz	dB	-	2.9	4.0
Amplitude Ripple within 1574.42 ~ 1576.42MHz	dB _{p-p}	-	0.1	1.5
Attenuation:				
1.0 ~ 890.0 MHz	dB	40	60	-
890.0 ~ 1475.0 MHz	dB	36	55	-
1475.42 MHz	dB	36	50	
1535.42 MHz	dB	29	50	
1615.42 MHz	dB	25	42	
1675.42 MHz	dB	40	55	
1700.0 ~ 3000.0 MHz	dB	25	38	
VSWR within 1574.42 ~ 1576.42MHz	-	-	1.55	2.5

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

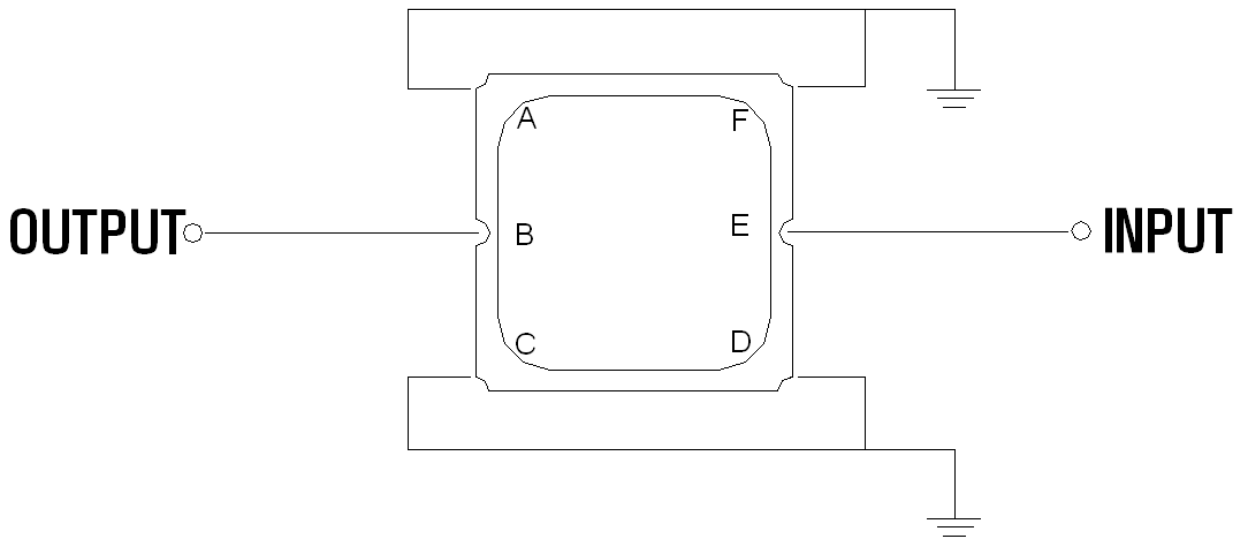
Package Dimensions



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

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

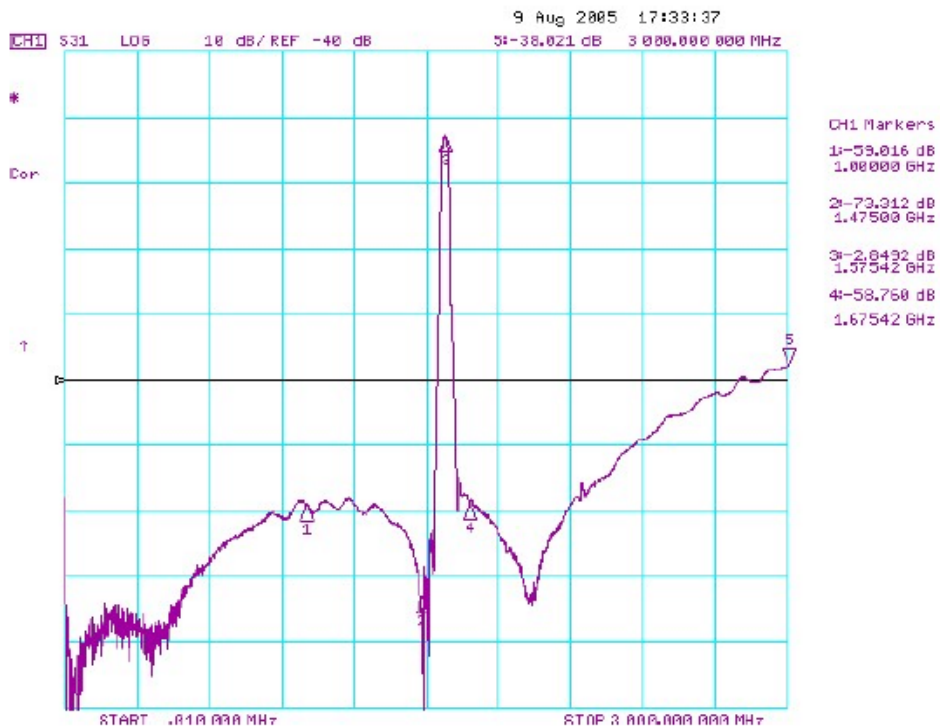
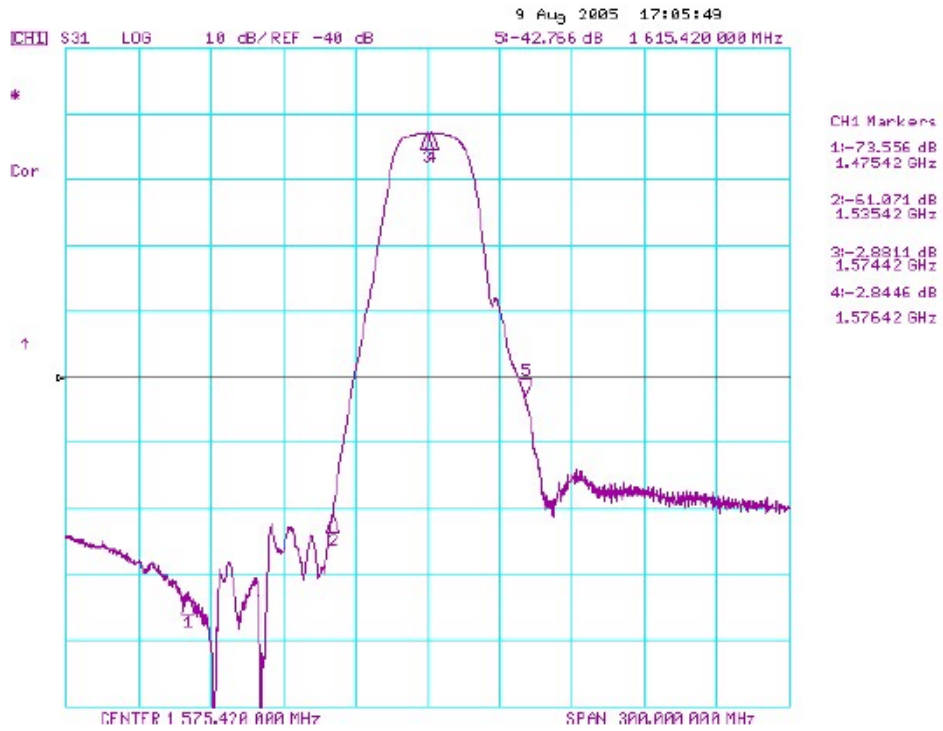
Testing Environment



Source & Load Impedance: 50 Ω

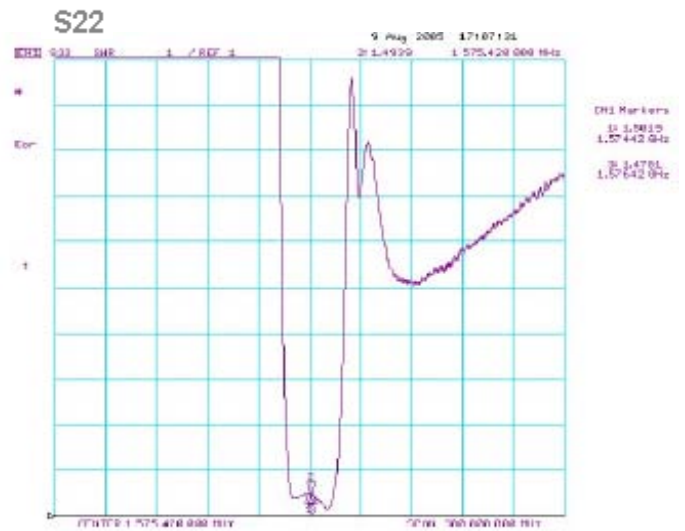
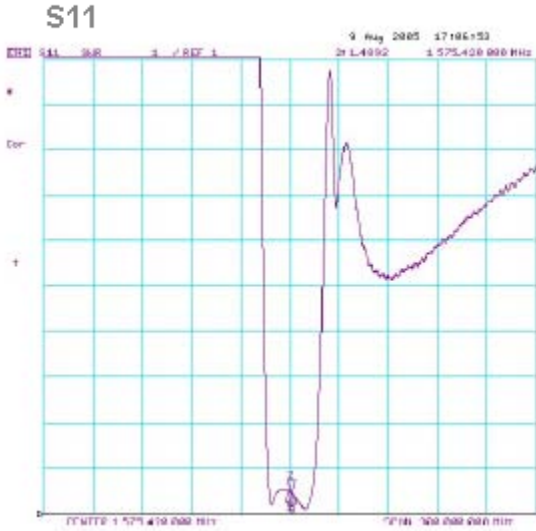
Frequency Characteristics

Frequency Response





VSWR



Smith Chart

