



SPECIFICATION

SPEC NO. : SP-11A1609JF01-01

PART NO. : SPK-GGNA07

PRODUCT NAME : (GPS+GLONASS) External Antenna

DESCRIPTION : (GPS / GLONASS External Ant) /
 RG174/3M/3~5V/8.5mA/32dB
 SMA/DSP*36

REVISION STATUS

VERSION	DATE	PAGE	REVISION DESCRIPTION	PREPARED	DESIGNED	APPROVED
S01	2013.05.28	All	新制訂	Mingru	TY	Frank

Prepared By	Designed By	Approved By




SPK ELECTRONICS CO., LTD.

一、 Electrical Characteristics

1.1 Antenna

1	Antenna model	DSP(36×36×6)
2	Frequency Range	1575/1609MHz
3	V.S.W.R	1.5:1
4	Band Width	> 40 MHz
5	Impedence	50 ohm
6	Gain	> 4dBic Based on7×7cm ground plane
7	Polarization	RHCP

1.2 LNA

1	Frequency Range	1575/1609MHz
2	DC Voltage	3.0-5.0V
3	Gain (Typical)	32dB (+25°C±10°C)
4	Output VSWR (Typical)	< 2.0
5	Noise Figure (Typical)	1.5(+25°C±10°C)
6	DC current (Typical)	8.5mA(At5.0V) 

二、 Material

No	Part Name	SPEC
1	Antenna	Dielectric Ceramics
2	PCB	FR4
3	Shielding	Tinplate
4	RF Cable	RG174
		300±10CM
5	RF Connector	SMA-J
6	Thickness	17mm

RoHS

Add : 10F,NO.510,SEC.5,CHUNG HSIAO E. RD, TAIPEI, TAIWAN

Tel : 02-2346-2323

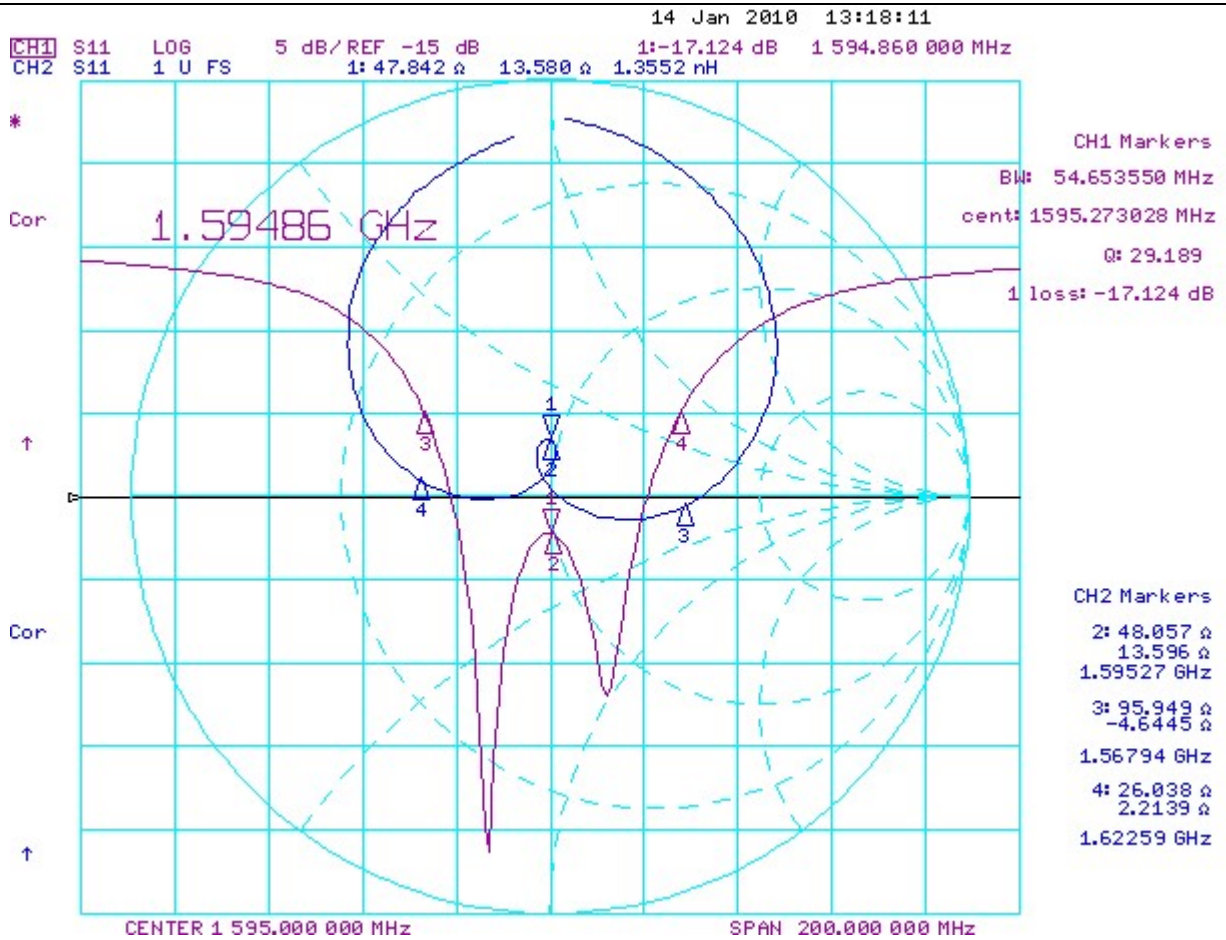
Fax : 02-2346-3939

E-mail : spktw@ms34.hinet.net

WEB:<http://www.spkecl.com>



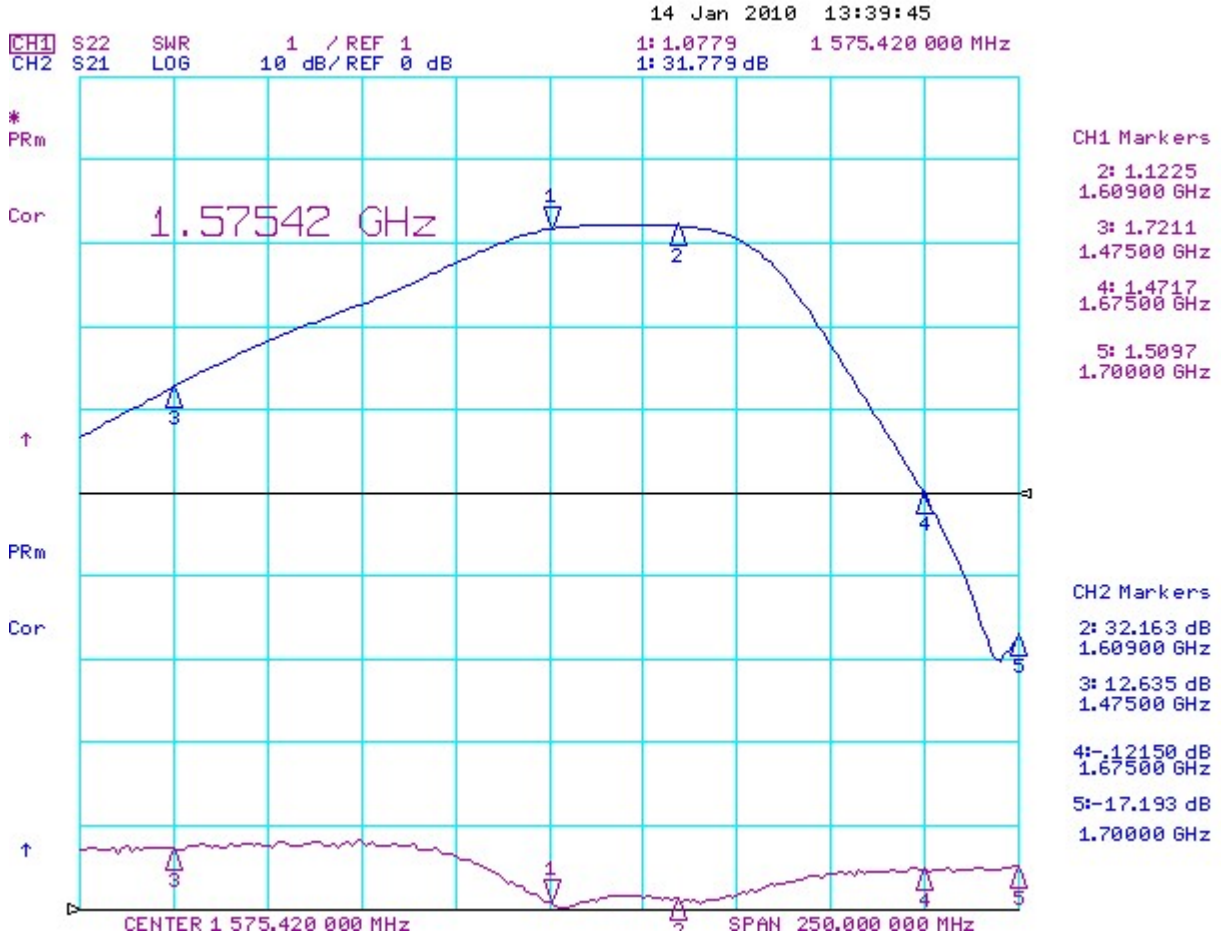
三、 Patch Test curve



Test condition:50x48mm ground



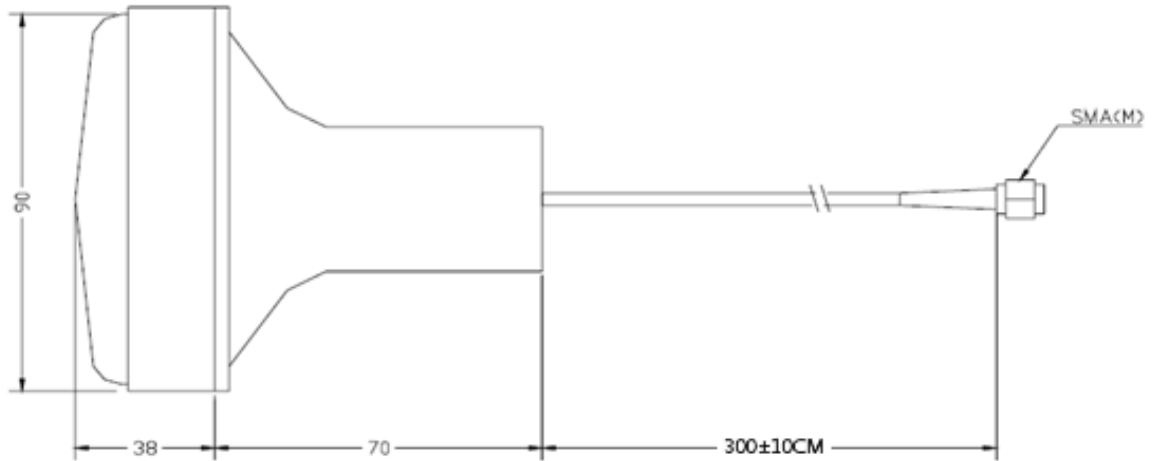
四、Lna Test curve



Test condition: DC 5.0V



五、Structure



Unit:mm

Tolerance:+/- 0.2mm



六、 Environment Condition

1	Working Temp	-25°C~+65°C
2	Storage Temp	-45°C +85°C
3	Vibration	Sine sweep 1g(0-p)
		10~55~10Hz each axis

七、 Notes

Electrostatic sensitive device, Observe precautions for handling.

