

SPECIFICATION FOR APPROVAL**CUSTOMER :****CUSTOMER PART NO:****SUPPLIER:** Signal Plus Technology Co.,Ltd.**SUPPLIER PART NO:** JLCL-S288**DESCRIPTION:** GPS/BEIDOU/GLONASS/38dB/40mA@5.0V/TNC-K**REMARKS:****Customer Signature :****Customer Seal:****Supplier Signature:****Supplier Seal :****NOTE: Please return this copy as a certification of your approval !**Prepared by:
Ren ShugangFormed On:
2015.01.15

Add

Room 603,Building 30,No.69,Guiqing Road, Xuhui
District ,Shanghai,china

Tel

021-54266190

Fax

021-54266191



Signal Plus

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Prepared by	Checked by	Approved by
Ren Shugang	Wu Zhijun	Yu Zhu

1、Electrical Characteristics

1.1Antenna

1	Antenna Model	PTFE-1230&1580 (90*90*10mm)
2	Frequency Range	GPS:L1/L2/L5 BEIDOU:B1/B2/B3 GLONASS:L1/L2
3	Impedance	50Ω
4	Polarization	RHCP
5	V.S.W.R	1.5:1
6	Gain	4.5dBic : at Zenith -4.0dBic : at 20 °Elevation
7	Phase Center	≤2mm
8	Axial Ratio	≤2.0: at Zenith ≤4.0: at 20 °Elevation
9	Front-to-rear Ratio	≥20dB

1.2 LNA

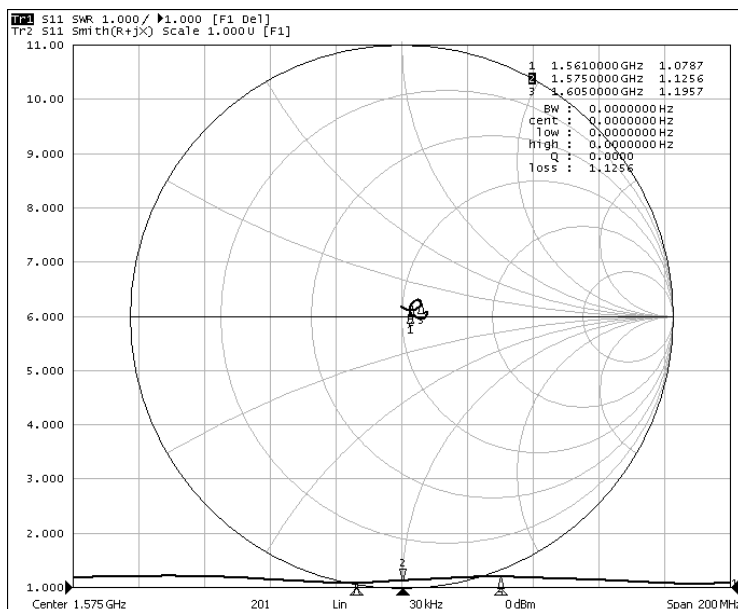
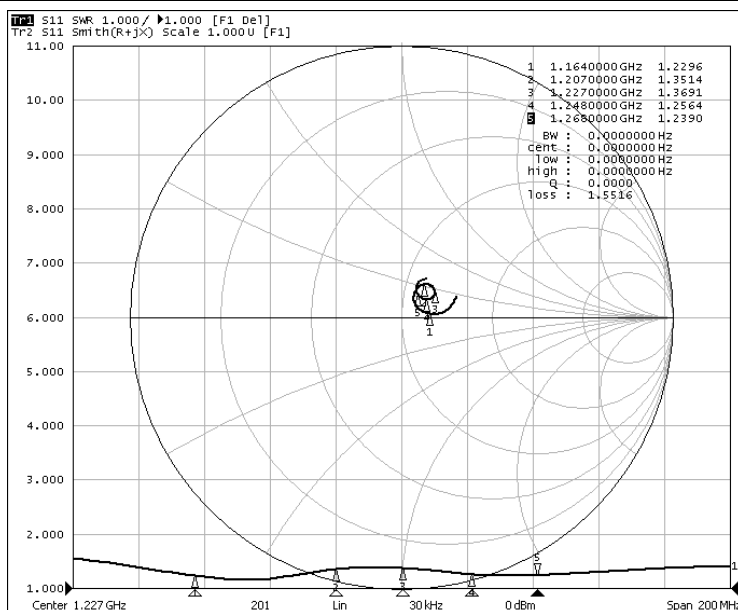
1	Frequency Range	GPS:L1/L2/L5 BEIDOU:B1/B2/B3 GLONASS:L1/L2
2	DC Voltage	3.3~9.0V
3	Gain	38±3dB
4	Out band Rejection (Absolute value)	≥35dB(F _H +100MHz) ≥35dB(F _L -100MHz)
5	Output (VSWR)	2.0
6	Noise Figure(MAX)	1.5
7	DC current	≤45mA (40mA@5.0V)

1.3 Overall (Complete module including RF connector)

1	Frequency Range	GPS;BEIDOU;GLONASS
2	Output (VSWR)	2.0
3	Gain	40dB
4	Impedance	50Ω

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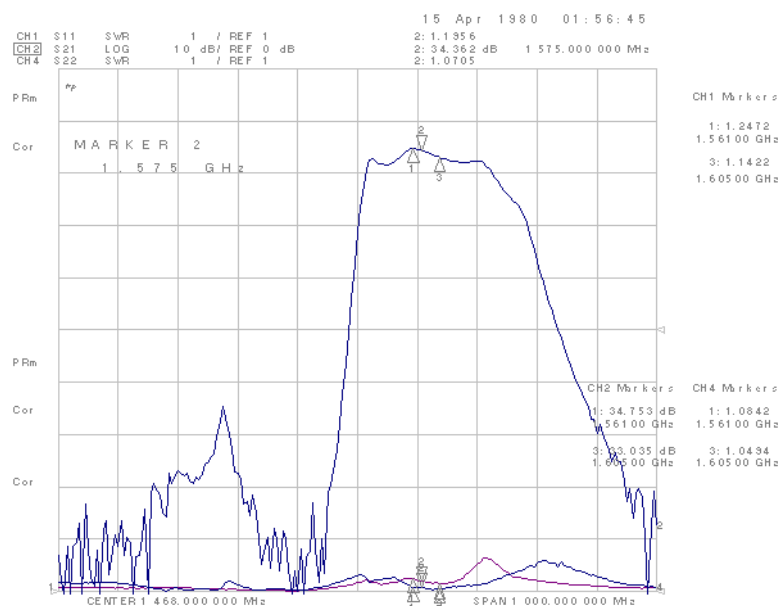
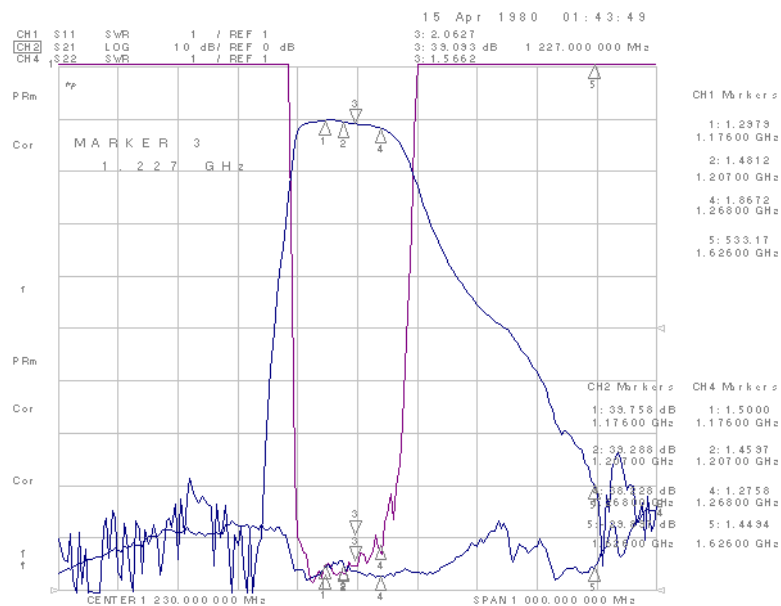
2、Patch Test curve



PASSIVE ANTENNA : VSWR ≤ 1.5 (GPS/BEIDOU/GLONASS)

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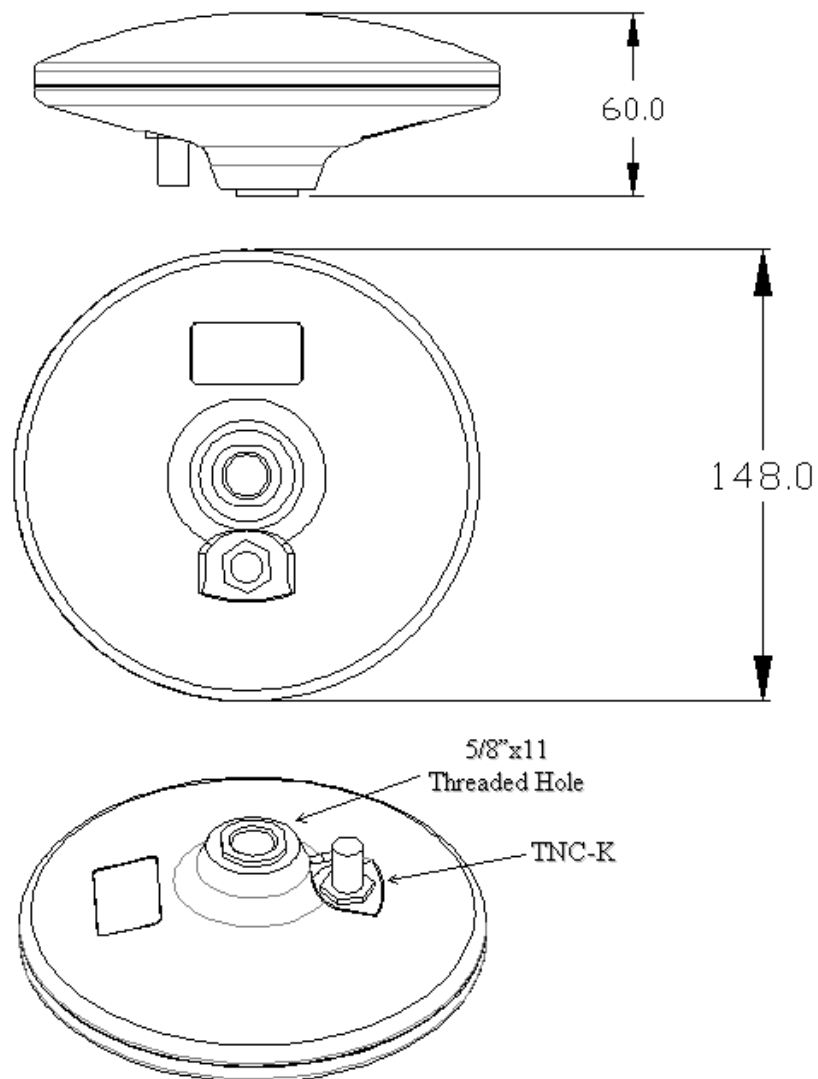
3、LNA Test curve



Test condition: DC 5.0V

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4、Structure (unit: mm)



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5、Material

No	Part Name	SPEC
1	Antenna	PTFE F ₄ B-1/2
2	PCB	FR4
3	Shielding	Tinplate
4	RF Connector	TNC-K
5	Threaded Hole	Copper
6	Plastic shell	ABS

6、Environment Condition

1	Working Temp	-40℃~+80℃
2	Storage Temp	-40℃~+85℃
3	Vibration	Sine sweep 1g(0-p)
		10~55~10Hz each axis
4	ESD Protection	+/- 6kv (direct discharge) and +/- 8kv (air discharge)

7、Packing (If there are other customers packaging requirements specified in the order)

Each carton includes 6PCS antenna, Each case put 1PCS antenna, the size of carton is 630 * 460 * 105 mm.



NOET: Packing pictures, for reference.

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8、 Note

- 1、 This product specification guarantees the quality of our product as a single unit. Please make sure that your product is evaluated and confirmed against your specifications when our product is mounted to your product.
- 2、 The product will get free warranty for three months since the date of purchase users operate in the correct way; users will have to pay cost of the materials and maintaining fee out of the condition.
- 3、 Electrostatic sensitive device.Observe precautions for handling.