

**ELECTRICAL SPECIFICATIONS (GPS)**

**1. ANTENNA**

Parameters	Value	Unit
Frequency Range	1575.420 ± 3.000	MHz
VSWR, max	1.5	-
Bandwidth, min	10	MHz
Input Impedance	50	Ω
Gain (based on 70x70mm GND plane)	4.5	dBic
Polarization	RHCP	-
Operating Temperature Range	-40 ~ +85	°C
Storage Temperature Range	40 ~ +85	°C
IP Code	IP66	-

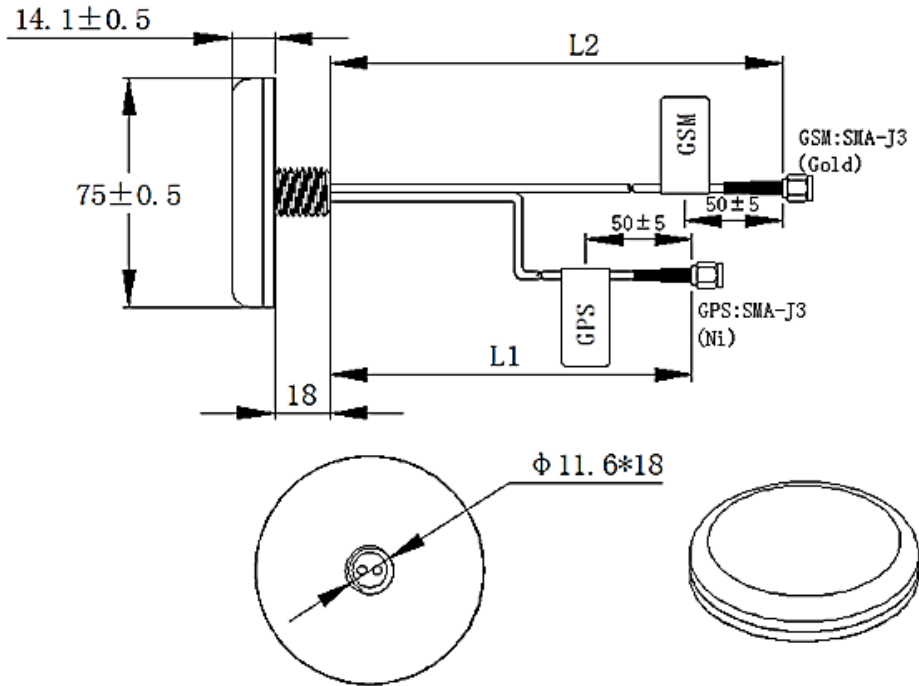
**2. LNA**

Parameters	Value	Unit
Frequency Range	1575.420 ± 3.000	MHz
DC Voltage	3.3 ± 0.3	V
Gain	28.0 ± 3.0	dB
Output VSWR	2.0	-
Noise Figure	1.5	-
DC Current at 3.3V, typ	9.0 ± 3.0	mA
Connector	SMA-J3 Ni	-
RF Cable	RG174	-

**ELECTRICAL SPECIFICATIONS (GSM)**

Parameters	Value		Unit
Frequency Range	806 ~ 960	1710 ~ 2170	MHz
Gain	-1.0 @ 900	1.0 @ 1800	dB
VSWR, max	2.0		-
Impedance	50		Ω
Polarization	Linear		-
RF Connector	SMA-J3 Gold		-
RF Cable	RG174		-

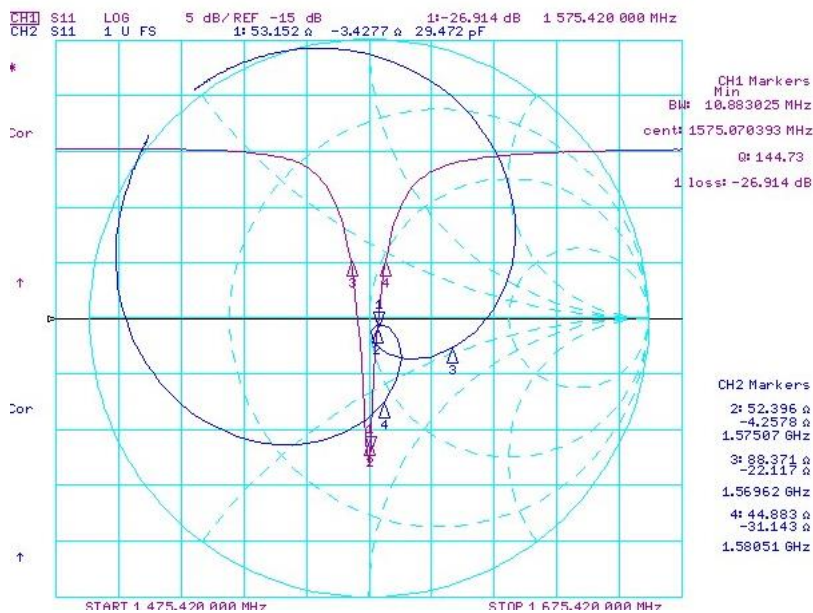
**Dimensions**



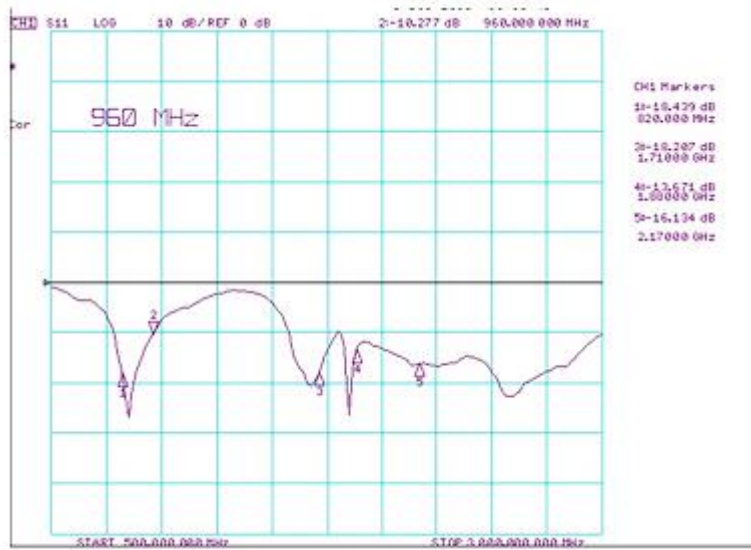
L1 = L2 =  $4000 \pm 100$  mm  
Dimensions: mm

**Frequency Characteristics**

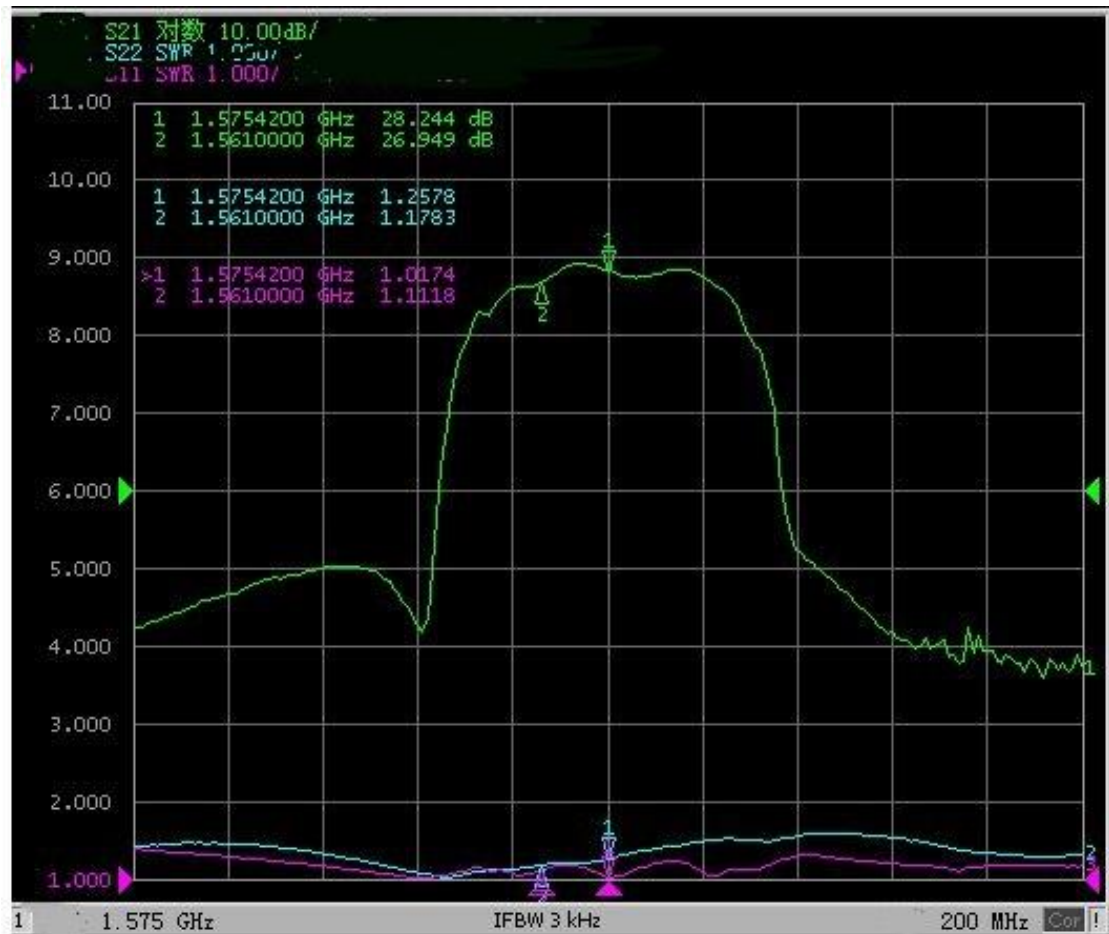
**Test Curve**



**GPS**



GSM



LNA

May, 2017

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