

GPS/3G External Antenna Specification

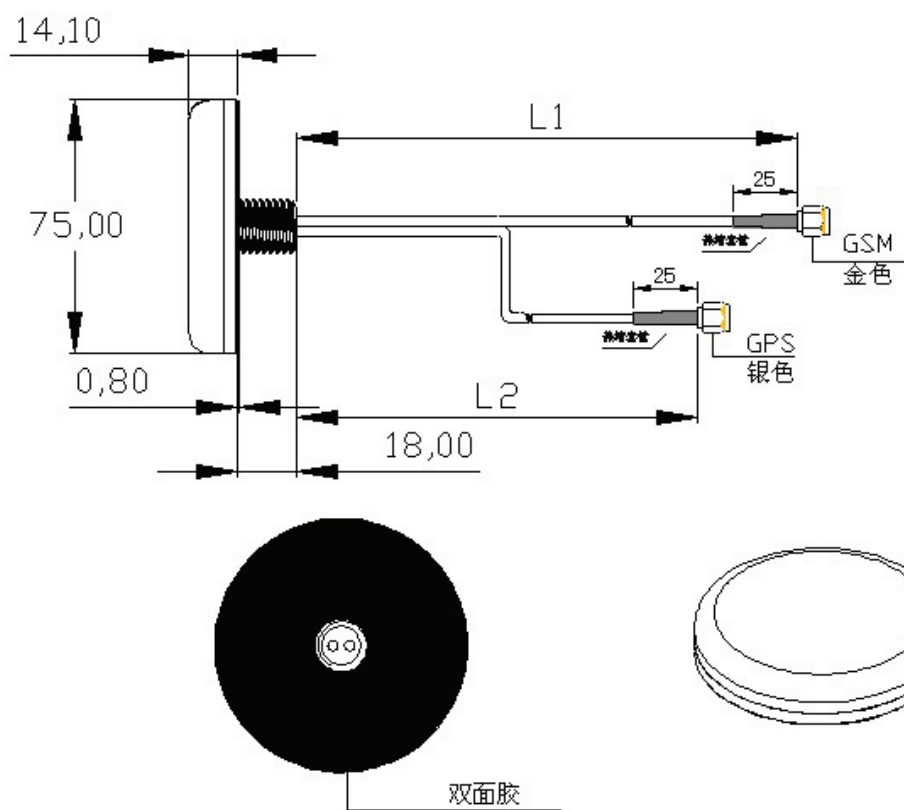


Antenna	
Frequency Range	1575.42MHz±1.02 MHz
V.S.W.R	1.5:1
Band Width	> 10 MHz
Impendence	50 ohm
Gain	5dBic Based on 7×7cm ground plane
Polarization	RHCP
LNA	
Frequency Range	1575.42MHz±1.02 MHz
DC Voltage	2.7V/3.0V/3.3V/5.0V/3.0V to 5.0V/other

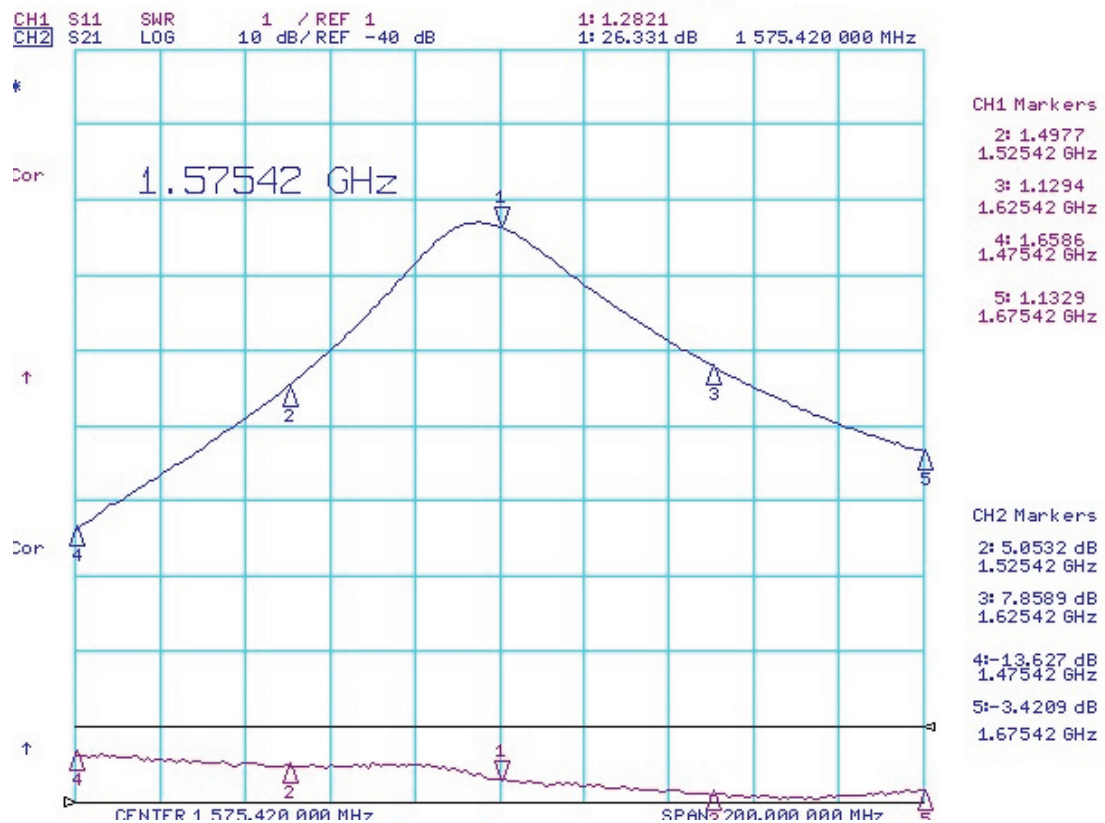
Gain (Typical)	27dB (Without cable +25°C±10°C)
Output VSWR (Typical)	2.0
Noise Figure (MAX)	1.5(+25°C ± 10°C)
DC current (Typical)	10.5mA
GSM part	
Working Frequency	824MHz-960MHz 1710MHZ-1990MHZ 1900-2170Mhz
V.S.W.R	2:1
Impendence	50 ohm
Peak Gain	1dbi@900MHZ 1dbi@1800MHZ 1.5dbi@1900MHZ 1.5dbi@2000MHZ
Azimuth	Omni-directional
Polarization	Linear Polarization
Material	
Antenna	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
RF Cable	L1=2000/3000/5000 or other
RF Connector	SMA/MCX/FAKRA or other
Assemblage	Ultrasound Welding
Thickness (Typical)	15mm

Testing Conditions	
Working Temp	-25℃~+65℃
Storage Temp	-45℃~+85℃
Vibration	Sine sweep 1g(0-p)
	10~55~10Hz each axis

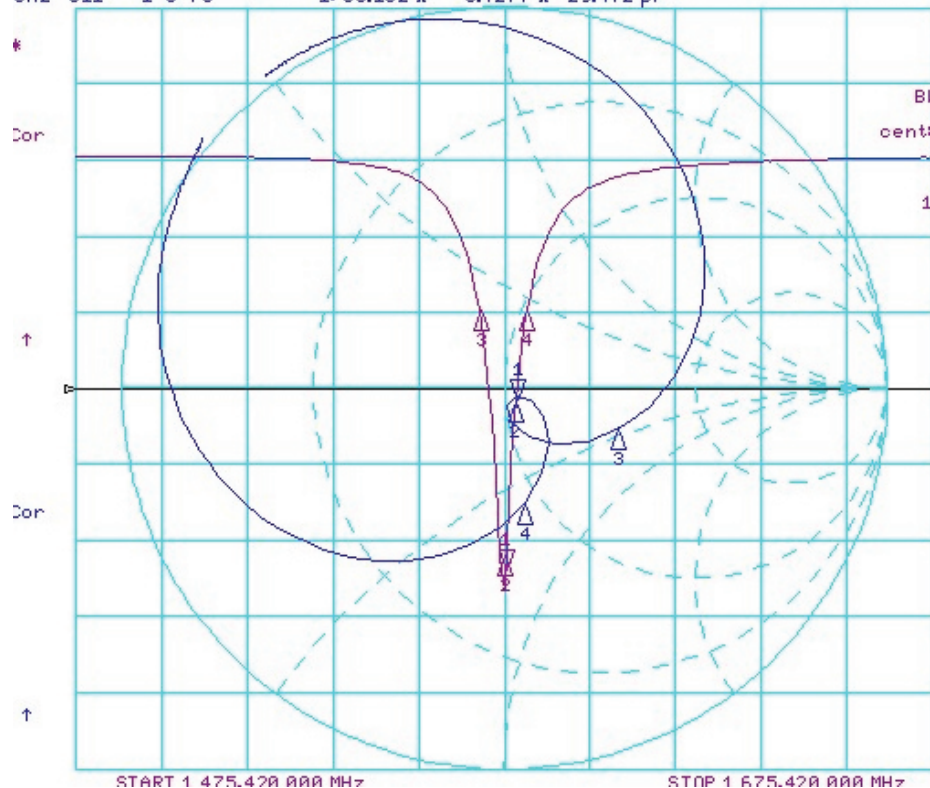
Size drawing



Lna Test Plans



CH1 S11 LOG 5 dB/REF -15 dB 1:-26.914 dB 1 575.420 000 MHz
 CH2 S11 1 U FS 1: 53.152 Ω -3.4277 Ω 29.472 pF



CH1 Markers
 Min
 BW: 10.883025 MHz
 cent: 1575.070393 MHz
 Q: 144.73
 1 loss: -26.914 dB

CH2 Markers
 2: 52.396 Ω
 -4.2578 Ω
 1.57507 GHz
 3: 88.371 Ω
 -22.117 Ω
 1.56962 GHz
 4: 44.883 Ω
 -31.143 Ω
 1.58051 GHz