MIKROE
Time-saving embedded tools

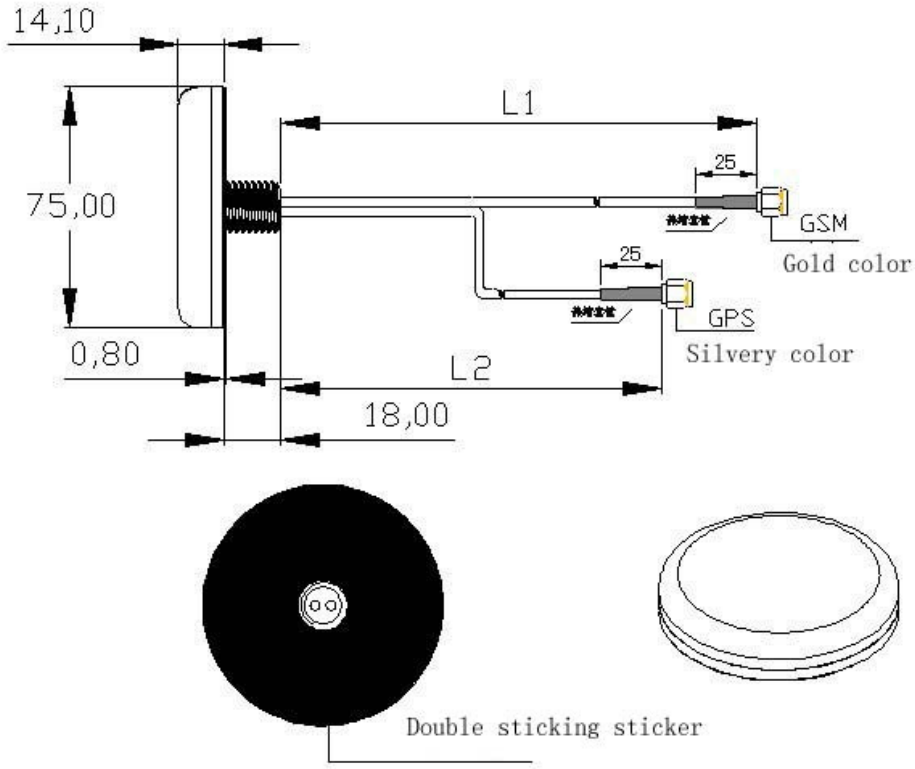
GPS/GLONASS/3G External Antenna Specification

一. Electrical Characteristics

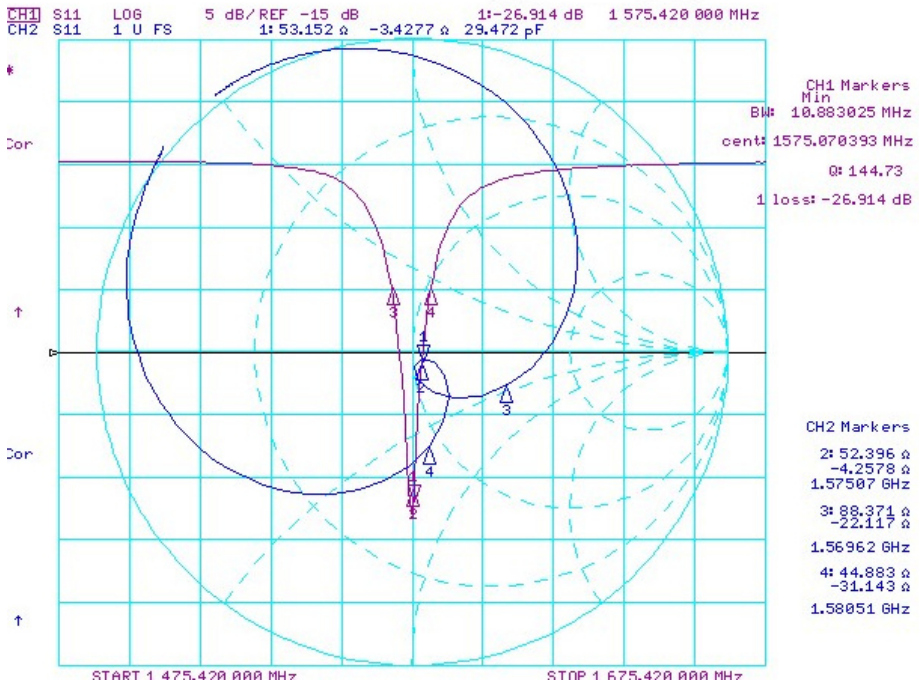
GPS/GLONASS Part	
Antenna	
Antenna model	25*25*4
Frequency Range	1575.42MHz±1.02 MHz 1610MHZ±10MHZ
V.S.W.R	1.5:1
Band Width	≥ 10 MHz for GPS ≥ 20MHZ for GLONASS
Impendence	50 ohm
Gain	5dBic Based on 7×7cm ground plane
Polarization	RHCP
LNA	
Frequency Range	1595MHz±25 MHz
DC Voltage	3.0V-5.0V
Gain（Typical）	27dB
Output VSWR（Typical）	2.0
Noise Figure（MAX）	1.5

DC current（Typical）	13.5mA
3G part	
Working Frequency	806MHz-960MHz/1710MHZ-2170MHz
V.S.W.R	2:1
Impendence	50 ohm
Peak Gain	-1dbi@900 1dbi@1800
Azimuth	Omni-directional
Polarization	Linear Polarization
Material	
Antenna	Dielectric Ceramics
PCB	FR4
Shielding	Tinplate
Cable length	Custom
RF Connector	Custom
Antenna mounting	Screw mounting
Testing　Conditions	
Working Temp	-25℃~+65℃
Storage Temp	-45℃~+85℃
Vibration	Sine sweep 1g(0-p)
	10~55~10Hz each axis

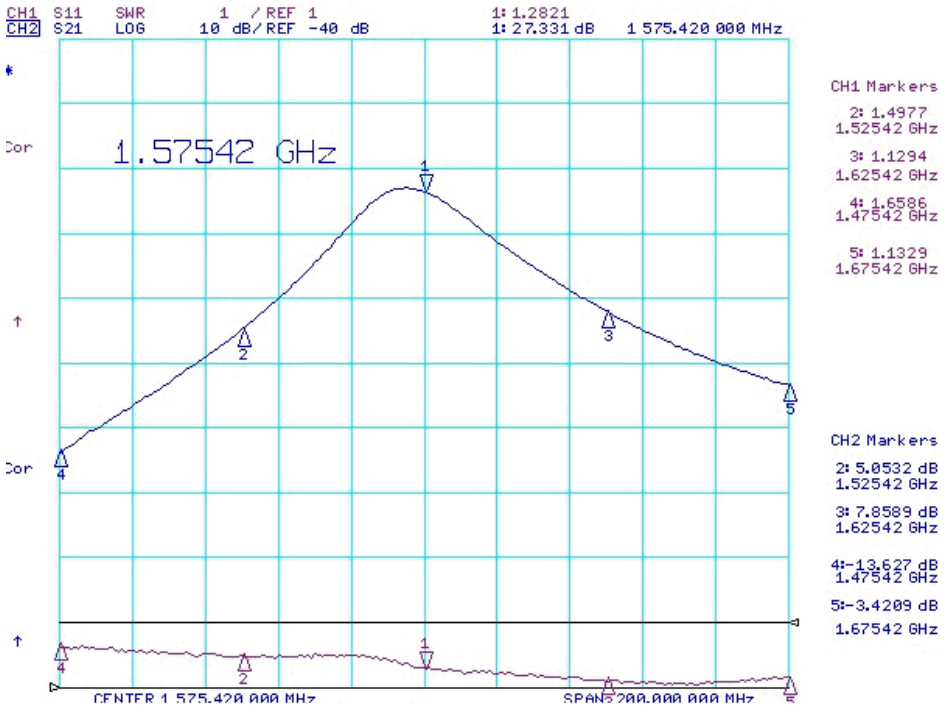
二. Size drawing



三. Patch Test Curve



四. LNA Test Curve



五. GSM Characteristic Cirve