



CHINMORE INDUSTRY CO.,LTD

Specification

1. Mag Mount Antenna for GPS (GPS-01 series)
2. *Chinmore's* No: GS-10D1SMA3V-002
3. Frequency: 1575.42 MHz
4. Impedance: 50 Ω
5. VSWR: 2.0:1
6. Cable: RG-174 5M
7. Connector: SMA (M) ST
8. Gain: 30 dBi

✧RoHS Compliant

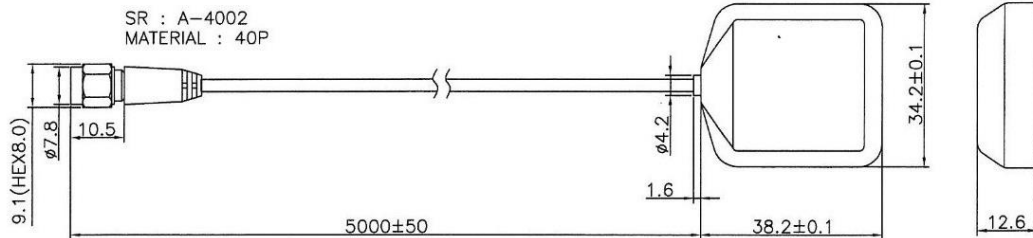
✧ISO 9001 & ISO 14001

✧Waterproof IP67 Rated

Cable	RG174/U	Frequency	1575.42MHz
OD	∅2.7±0.15mm	Impedance	50Ω
Cover	Black (黑)	V.S.W.R	2.0:1
SMA M	Gold (鍍金)	Lna Gain	30dB

ROHS

ISO 9001
ISO 14001



97/3/7 10D(GPS-01) 驗收		Material:	Treatment:	竣茂工業有限公司 Chinmore Industry CO .LTD								
NO	DESCRIPTION	MATERIAL / FINISH	Q'TY	Drawer	Design	Aprov	Tolerance	Unit:	mm	Symbol	TITLE	SMA M+174U+10D(GPS-01)
Part NO	GS-10D1SMA3V-002			105.11.21	105.11.21	105.11.21	X=±0.5 X=±0.2 XX=±0.1 XXX=±0.05	Ver:	B	Scale 1:1	Model NO	
				105.11.21	105.11.21	105.11.21		File NO:	QR0402	Drawing NO	248-0012	

ELECTRICAL

Frequency (MHz)	Return Loss (dB)	VSWR (dB)	E-Plane (dB)	H-Plane (dB)
1575.42	-18.47	1.27	26.67	30.22

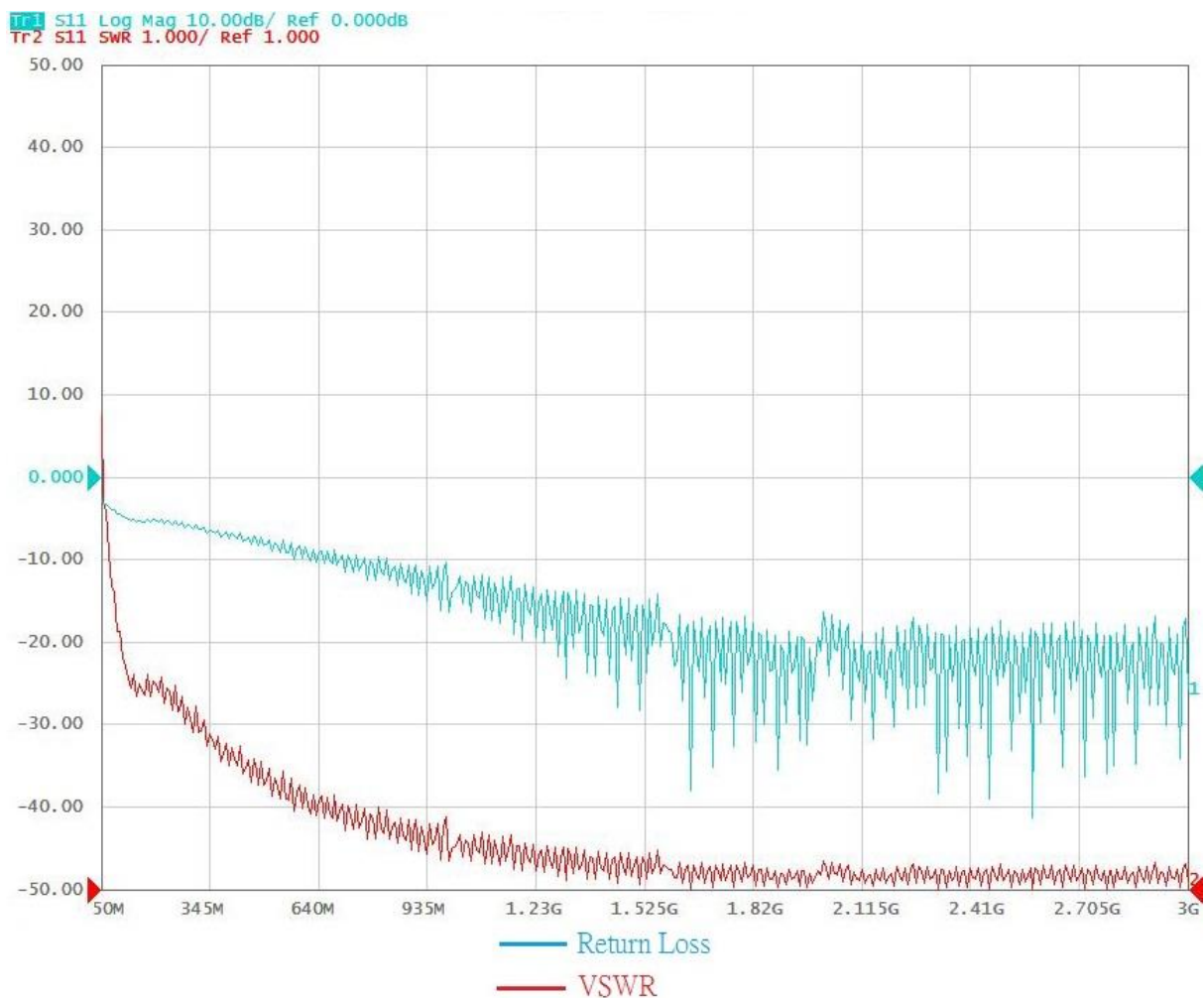
Patch SPEC

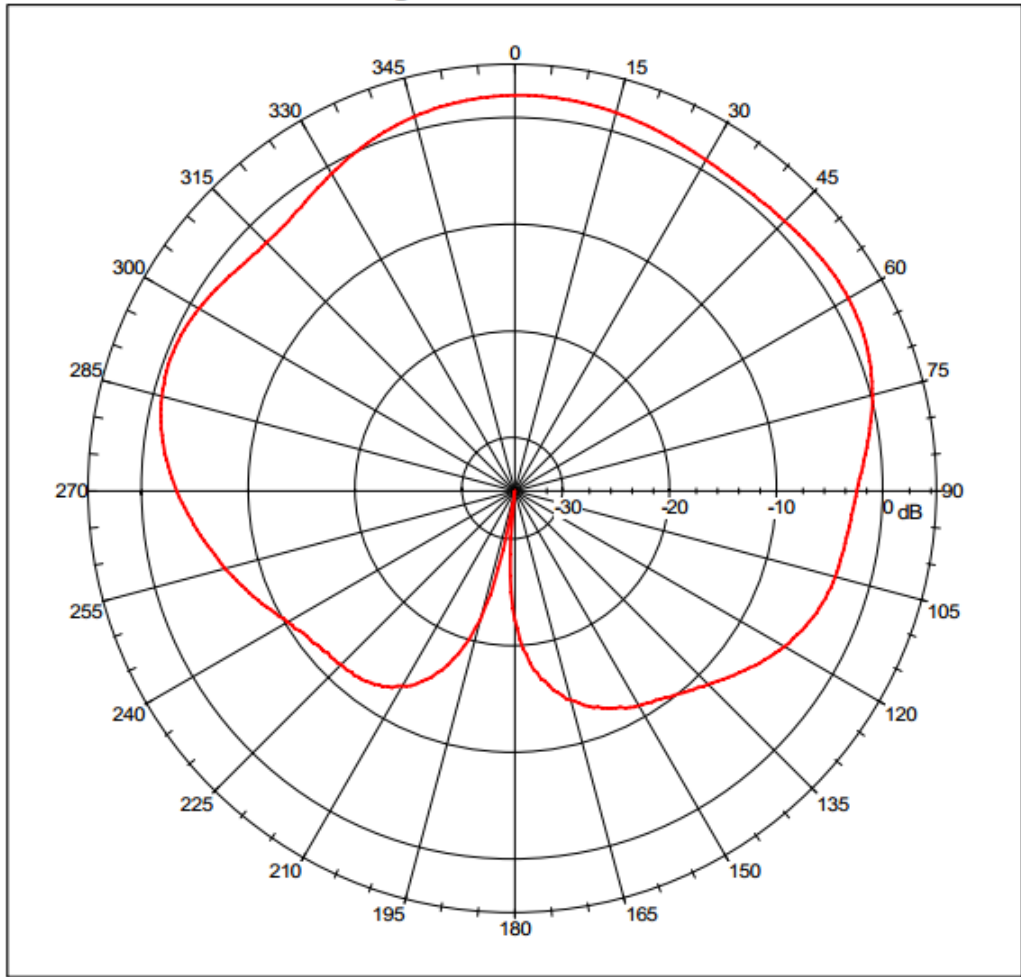
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz (When covered with a radome and measured by LNA ground plane)
Bandwidth (10dB return loss)	10 MHz min
Gain at Zenith	1 dBi type
Gain at 10° elevation	-5 dBi type
Polarization	R.H.C.P
Axial Ratio	1.0 dBi type

LNA SPEC

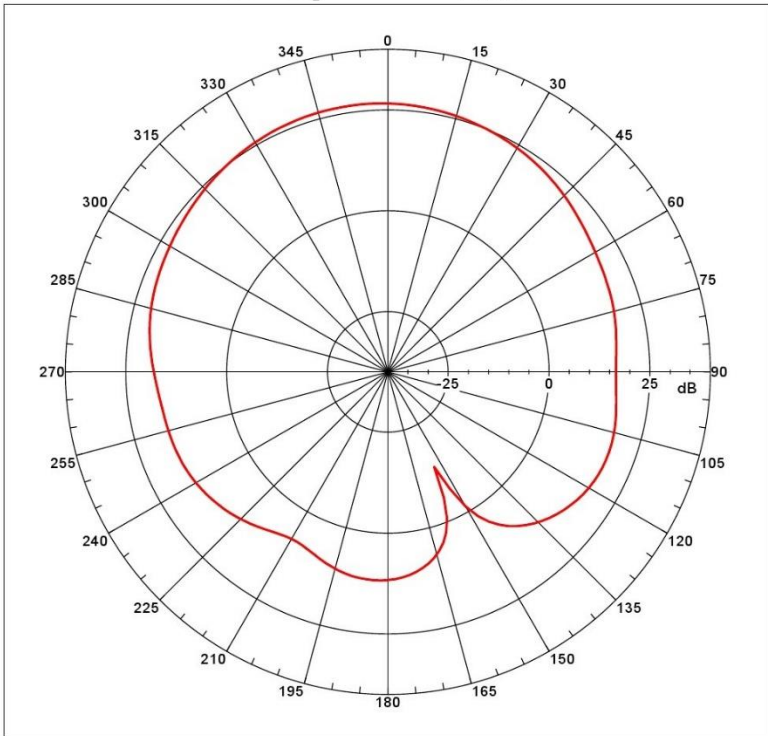
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz
Gain	30~37 dBi (3v / 32 dBi)
Noise Figure	1.5 dBi typ (3v / 1.5 dBi)
Filer Out band attenuation	Dielectric filter 7 dBi min fo±20MHz 20 dBi min fo±50MHz 30 dBi min fo±100MHz (fo= 1575.42 MHz)
Output V.S.W.R	2.0 max
Voltage	DC= 2.7~5.5V
Current	DC= 9~23Ma (3v / 10mA)

Test Report





Far-field amplitude of E.nsi

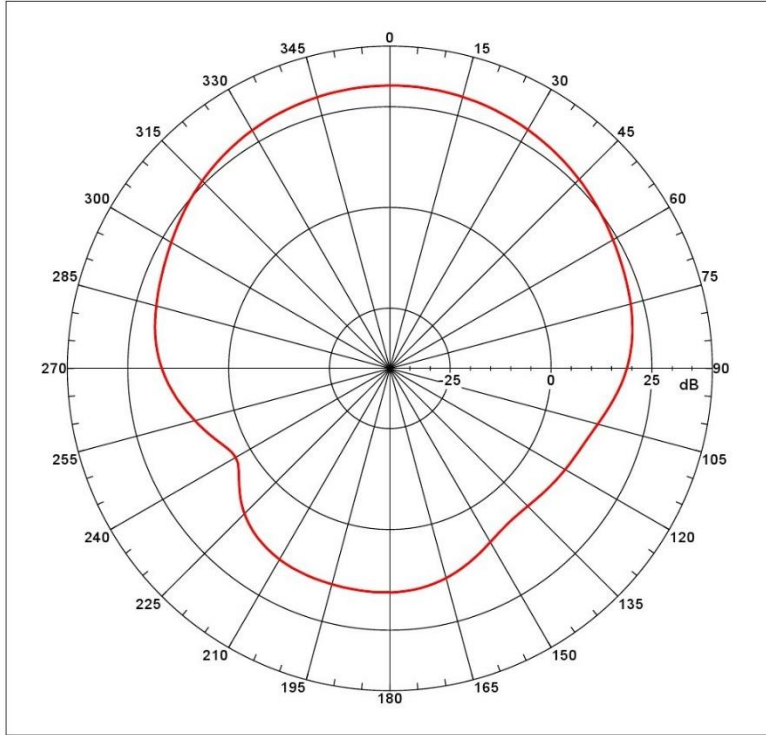


Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 26.67126 dBi
 Max far-field (global) = -18.09632 dB, Max far-field (plot) =
 -18.09632 dB
 Normalization: Reference, Network offset = 0.000 dB
 Hpeak at: -8.00001 deg, Vpeak at: 0.000 deg
 Plot centering: 0m

NSI2000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\CH
 IHROPE-GS-037-GS-037-E.nsi
 Measurement date/time: 5/4/2017 9:28:28 AM, Filetype: NSI-57
 Far-field Cut Analysis:
 Avg value: 19.649 dB
 -3. dB beam width: 82.93 deg
 -6. dB beam width: 128.03 deg
 -10. dB beam width: 188.25 deg
 Left Sidelobe: -14.89 dB at -175.978 deg
 Right Sidelobe: -8.32 dB at 111.620 deg
 Far-field display setup
 Azimuth (deg)
 Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
 Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000
 deg
 Elevation (deg)
 Center = 0.000 deg, #pts = 1
 Selected beam(s) 1 of 1
 Beam Frequency Azimuth Elevation Pol

 1 1.57542 GHz Azimuth Elevation Single-pol

Far-field amplitude of H.nsi



Far-field amplitude, Eprincipal: Linear, Tau = 0.000 deg
 Gain = 30.22339 dBi
 Max far-field (global) = -14.54419 dB, Max far-field (plot) =
 -14.54419 dB
 Normalization: Reference, Network offset = 0.000 dB
 Npeak at: -0.00001 deg, Vpeak at: 0.000 deg
 Plot centering: 0n

NSI000 V4.0.124, Filename: C:\Documents and Settings\NSI\Desktop\CH
 IMCME 05-037\05-037\H.nsi
 Measurement date/time: 5/4/2017 8:27:44 AM, Filetype: NSI-97
 Far-Field Cut Analysis:
 Avg value: -1.855 dB
 -3. dB beam width: 76.77 deg
 -5. dB beam width: 111.20 deg
 -10. dB beam width: 138.68 deg
 Left Sidelobe: -14.58 dB at -175.978 deg
 Right Sidelobe: Not Found
 Far-field display setup:
 Azimuth (deg)
 Span = 360.00001 deg, Center = 0.000 deg, #pts = 181
 Start = -180.00001 deg, Stop = 180.00001 deg, Delta = 2.000
 deg
 Elevation (deg)
 Center = 0.000 deg, #pts = 1

Selected beam(s) 1 of 1

Beam	Frequency	Azimuth	Elevation	Pol
1	1.57542 GHz	Azimuth	Elevation	Single-pol