CHINMORE INDUSTRY CO.,LTD

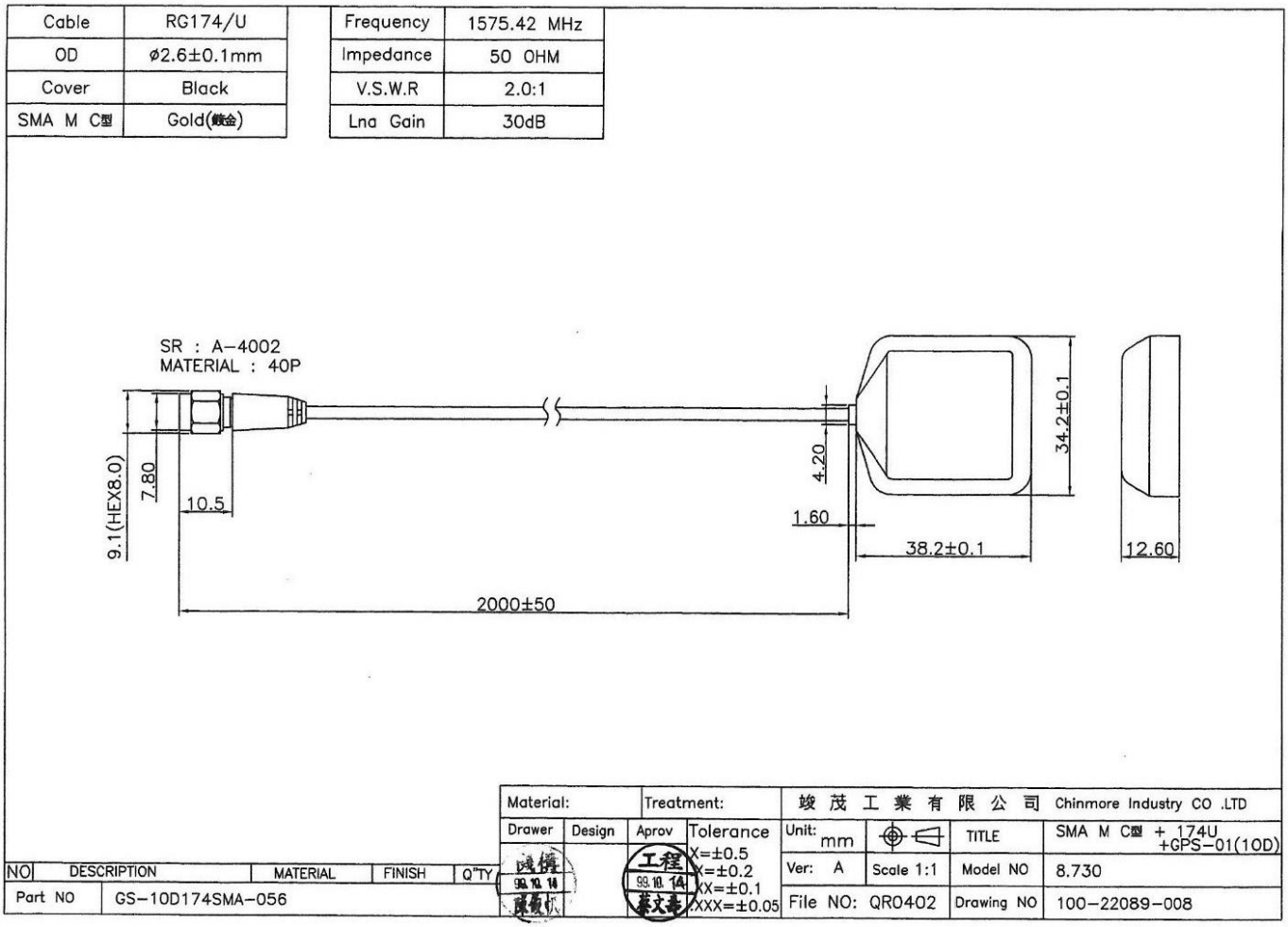
Specification

1. Mag Mount Antenna for GPS (GPS-01 series)
2. *Chinmore's* No: GS-10D174SMA-056
3. Frequency: 1575.42 MHz
4. VSWR: 2.0:1
5. Impedance: 50Ω
6. Cable: RG-174 2m
7. Connector: SMA (M) ST
8. Gain: 30 dBi

※*RoHS Compliant*

※*ISO 9001 & ISO 14001*

※*Waterproof IP67 Rated*



ELECTRICAL

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

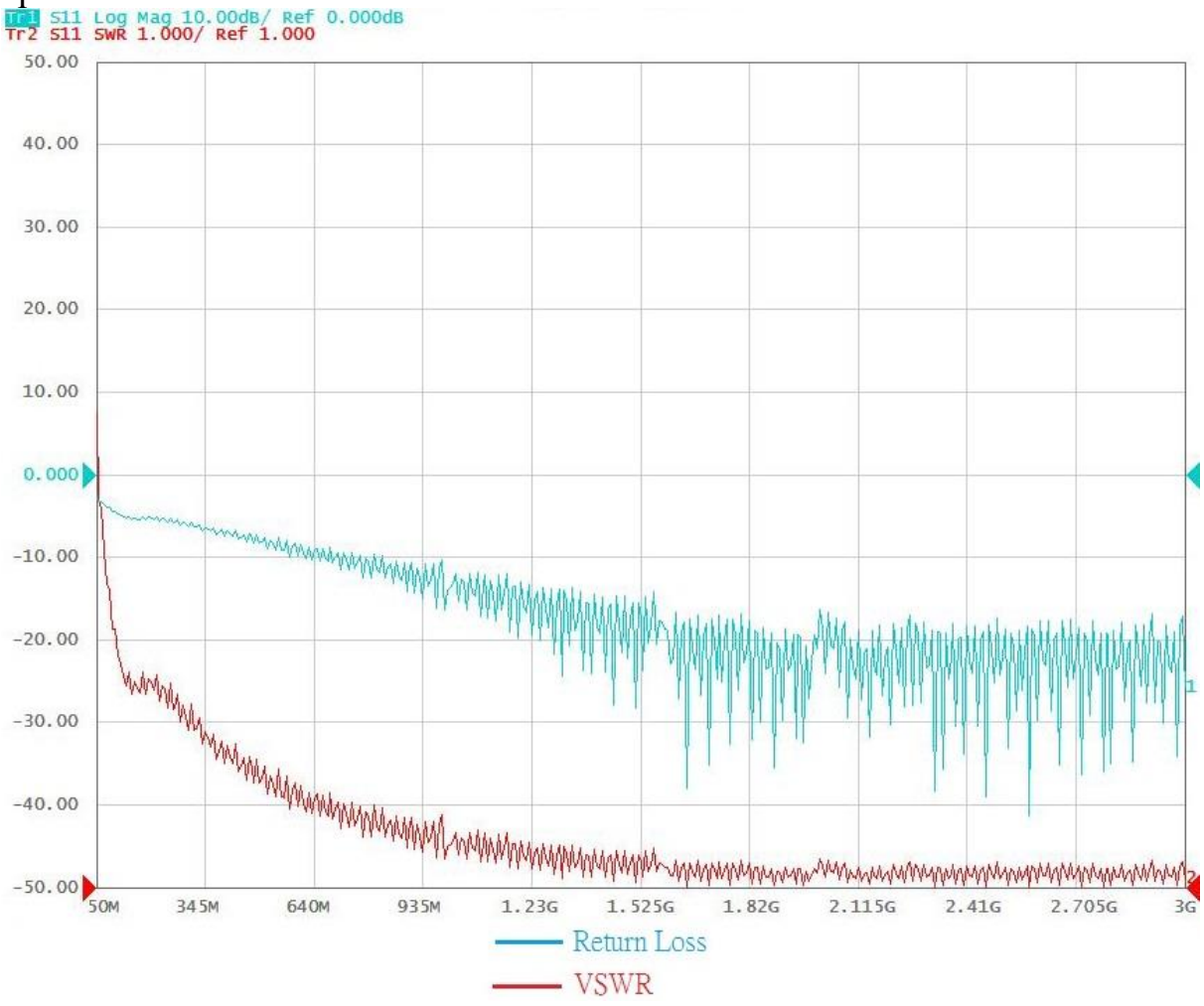
Patch SPEC:

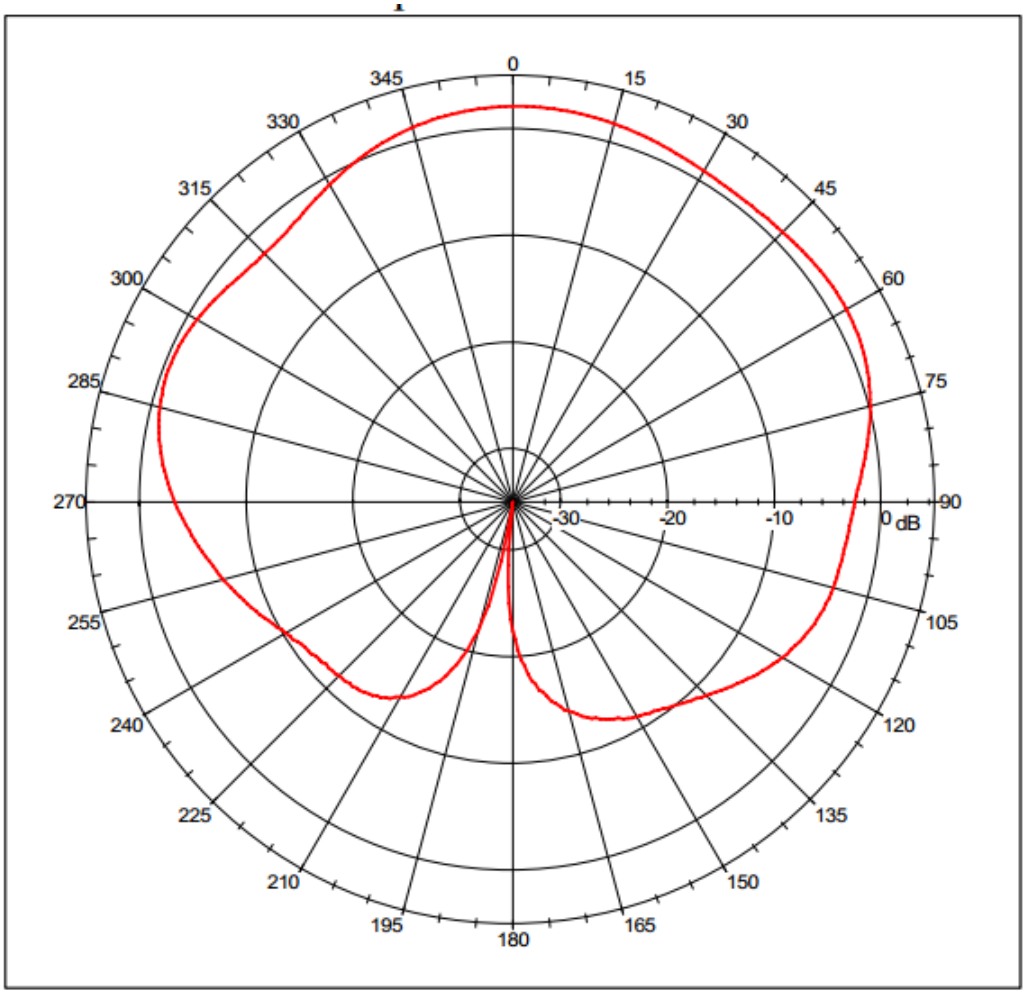
Characteristics	**Specification**
Center Frequency	1575.42±1.023 MHz (When covered with a radome and measured by LNA ground plane)
Bandwidth (10dBi return loss)	10 MHz min
Gain at Zenith	1 dBi type
Gain at 10°C elevation	-5 dBi type
Polarization	R.H.C.P
Axial Ratio	1.0 dBi type

LNA SPEC:

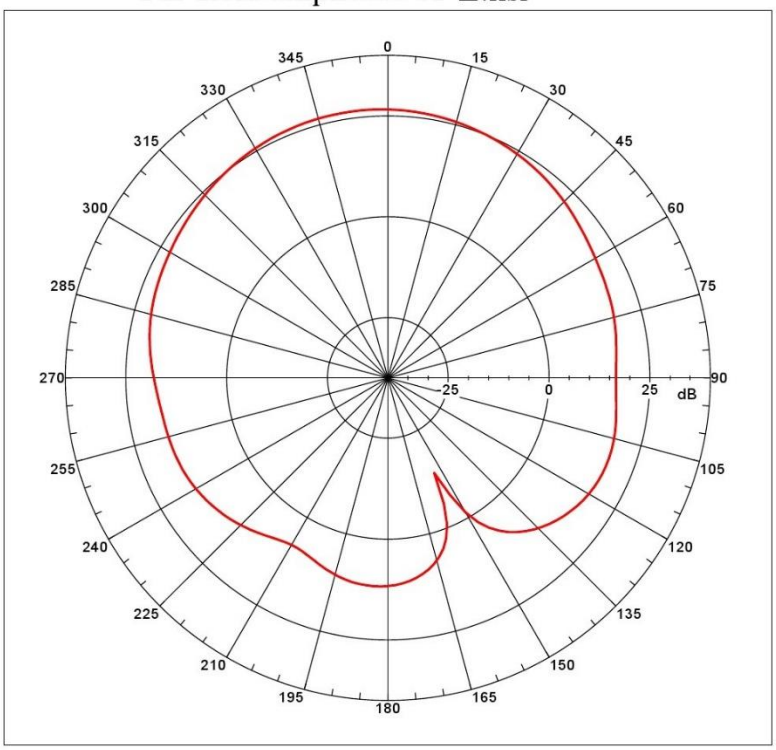
Characteristics	Specification
Center Frequency	1575.42±1.023 MHz
Gain	30~37 dBi (3V/32dBi)
Noise Figure	1.5 dBi type (3V/1.5dBi)
Filer out band attenuation	Dielectric filter (fo=1575.42 MHz) 7dBi min fo±20 MHz 20dBi min fo±50 MHz 30dBi min fo±100 MHz
Output V.S.W.R.	2.0 max
Voltage	DC=2.7~5.5V
Current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

Test Report





Far-field amplitude of E.nsi

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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: On


NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\CH
IHMORE\GS-037\GS-037-E.nsi
Measurement date/time: 5/4/2017 9:29:28 AM, Filetype: NSI-97
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: 188.29 deg
   Left Sidelobe: -14.88 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
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1       1.57542  GHz  Azimuth  Elevation  Single-pol
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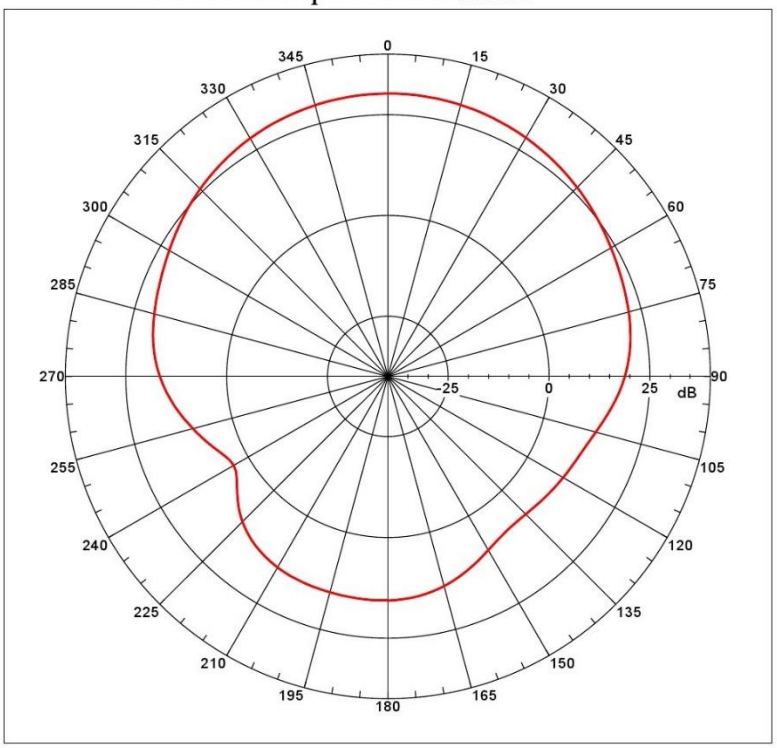
Far-field amplitude of H.nsi

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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
Hpeak at: -0.00001  deg, Vpeak at: 0.000  deg
Plot centering: On


NSI2000 V4.0.124, Filename:C:\Documents and Settings\NSI\Desktop\CH
INMORE\GS-037\GS-037-H.nsi
Measurement date/time: 5/4/2017 9:27:44 AM, Filetype: NSI-97
Far-field Cut Analysis:
   Avg value: 21.869 dB
   -3. dB beam width: 76.77 deg
   -6. dB beam width: 111.20 deg
   -10. dB beam width: 158.66 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
```