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# Satellite Antenna Series

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## **-Thuraya Band-**

**AH-TS00: Satellite Only**

**AH-TSG0: Satellite + GPS**

**Revision : 1.0**

**Last update : 15. Dec. 2016**

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**<http://www.ahnspace.com>**

# Satellite Antenna Series for Thurya Band

Rev : 1.0



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MODEL No. : **AH-TS00 [Satellite Only]**

## ► *Electrical Specification*

| Specification      |           | Value                       |
|--------------------|-----------|-----------------------------|
| Frequency range    | Rx        | 1525.0 – 1559.0 MHz         |
|                    | Tx        | 1626.5 – 1660.5 MHz         |
| Polarization       |           | LHCP                        |
| Gain (@peak)       | Tx        | 6.0 dBic                    |
|                    | Rx        | 6.0 dBic                    |
| Beam Pattern       | Azimuth   | Omni-Directional , 360 deg. |
|                    | Elevation | Hemisphere type to zenith   |
| HPBW               |           | > 70 deg                    |
| Axial Ratio        |           | < 3dB                       |
| V.S.W.R            |           | <1.5                        |
| Impedance          |           | 50 Ω                        |
| Connector Type     |           | SMA(F)                      |
| Ingress Protection |           | IP66                        |
| Mounting           |           | Magnet Mounting             |
| Weight             |           | 180g                        |
| Dimension (D x H)  |           | 110 x 40 (mm)               |



## ► *Environmental Data*

| Specification         | Value        |
|-----------------------|--------------|
| Operating Temperature | -30°C ~ 70°C |
| Storage Temperature   | -40°C ~ 85°C |

# Satellite Antenna Series for Thurya Band

Rev : 1.0



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MODEL No. : **AH-TSG0 [ Satellite + GPS, Dual]**

## ► Electrical Specification

| Specification         |           | SAT                         | GPS                    |
|-----------------------|-----------|-----------------------------|------------------------|
| Frequency range (MHz) | Rx        | 1525.0 – 1559.0             | 1575.42<br>(±15.0 MHz) |
|                       | Tx        | 1626.5 – 1660.5             |                        |
| Polarization          |           | LHCP                        | RHCP                   |
| Gain (@peak)          | Tx        | 6.0 dBic                    | 6.0 dBic               |
|                       | Rx        | 6.0 dBic                    |                        |
| Beam Pattern          | Azimuth   | Omni-Directional , 360 deg. |                        |
|                       | Elevation | Hemisphere type to zenith   |                        |
| HPBW                  |           | > 70 deg                    |                        |
| Axial Ratio           |           | < 3dB                       |                        |
| V.S.W.R               |           | < 1.5                       |                        |
| Impedance             |           | 50 Ω                        |                        |
| Connector Type        |           | SMA(F)                      |                        |
| Ingress Protection    |           | IP66                        |                        |
| Mounting              |           | Magnet Mounting             |                        |
| Weight                |           | 192 g                       |                        |
| Dimension (D x H)     |           | 110 x 40 (mm)               |                        |



SAT GPS

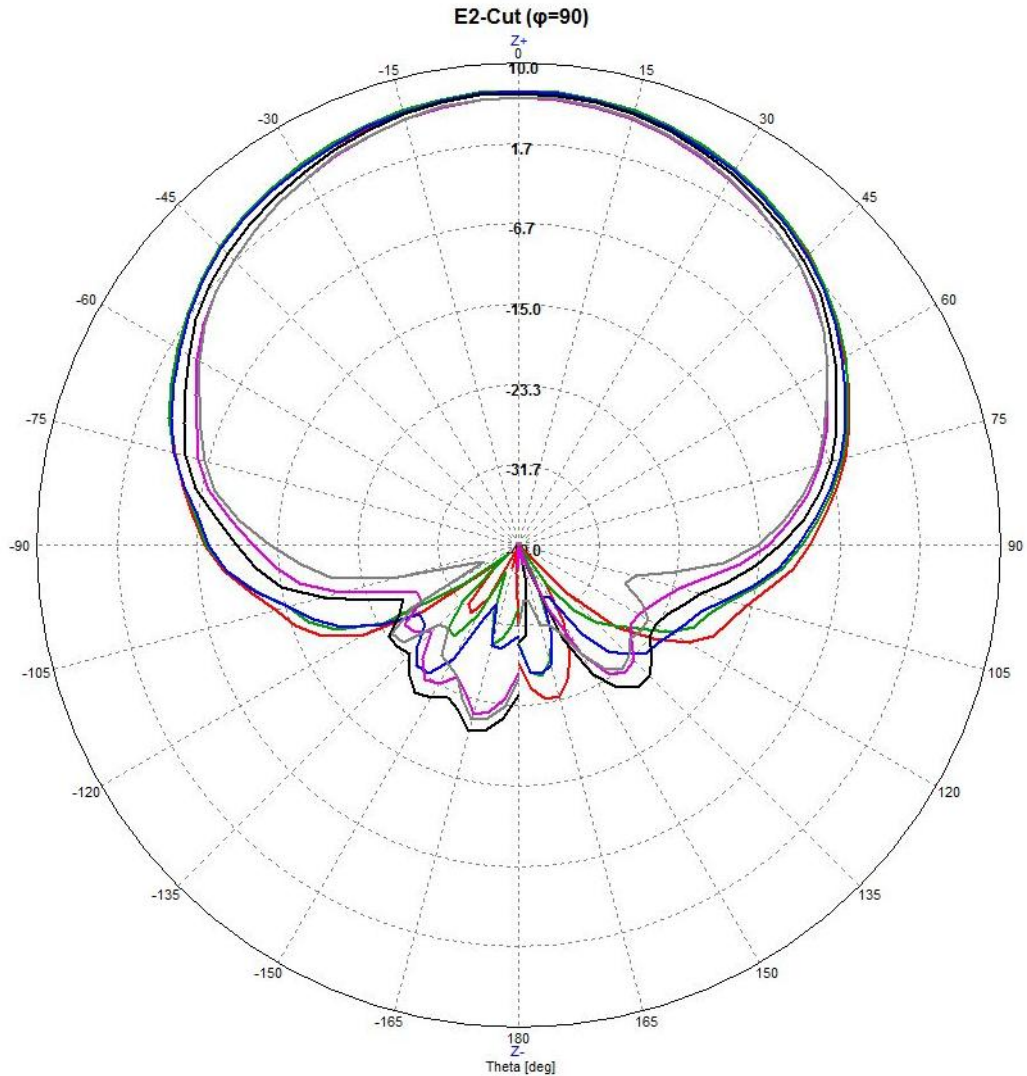
## ► Environmental Data

| Specification         | Value        |
|-----------------------|--------------|
| Operating Temperature | -30°C ~ 70°C |
| Storage Temperature   | -40°C ~ 85°C |



MODEL No. **AH-TS00 , AH-TSG0**

## ► Radiation Pattern for satellite band



Vertical Pattern (0 deg-cut)

# Satellite Antenna Series for Thuraya Band

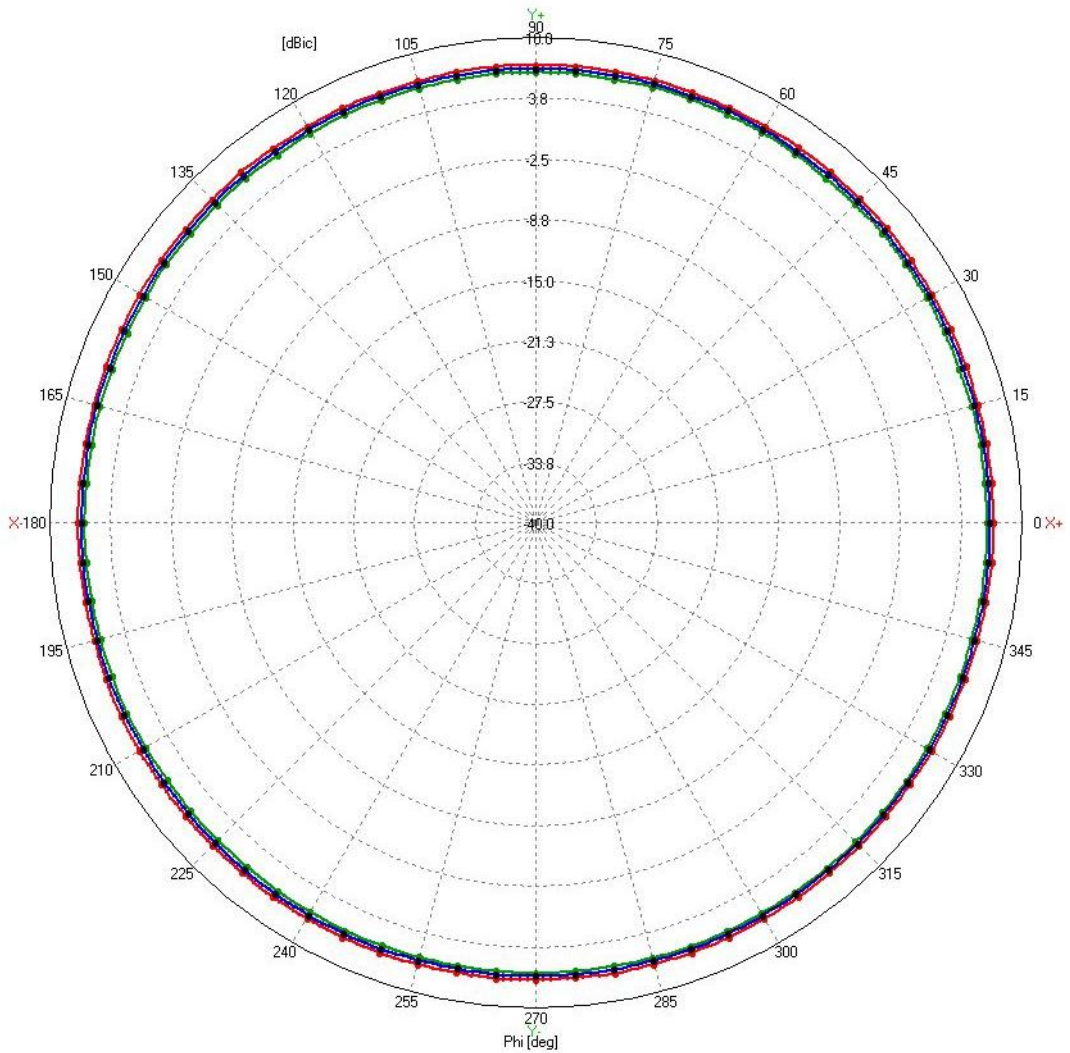
Rev : 1.0



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MODEL No. **AH-TS00 , AH-TSG0**

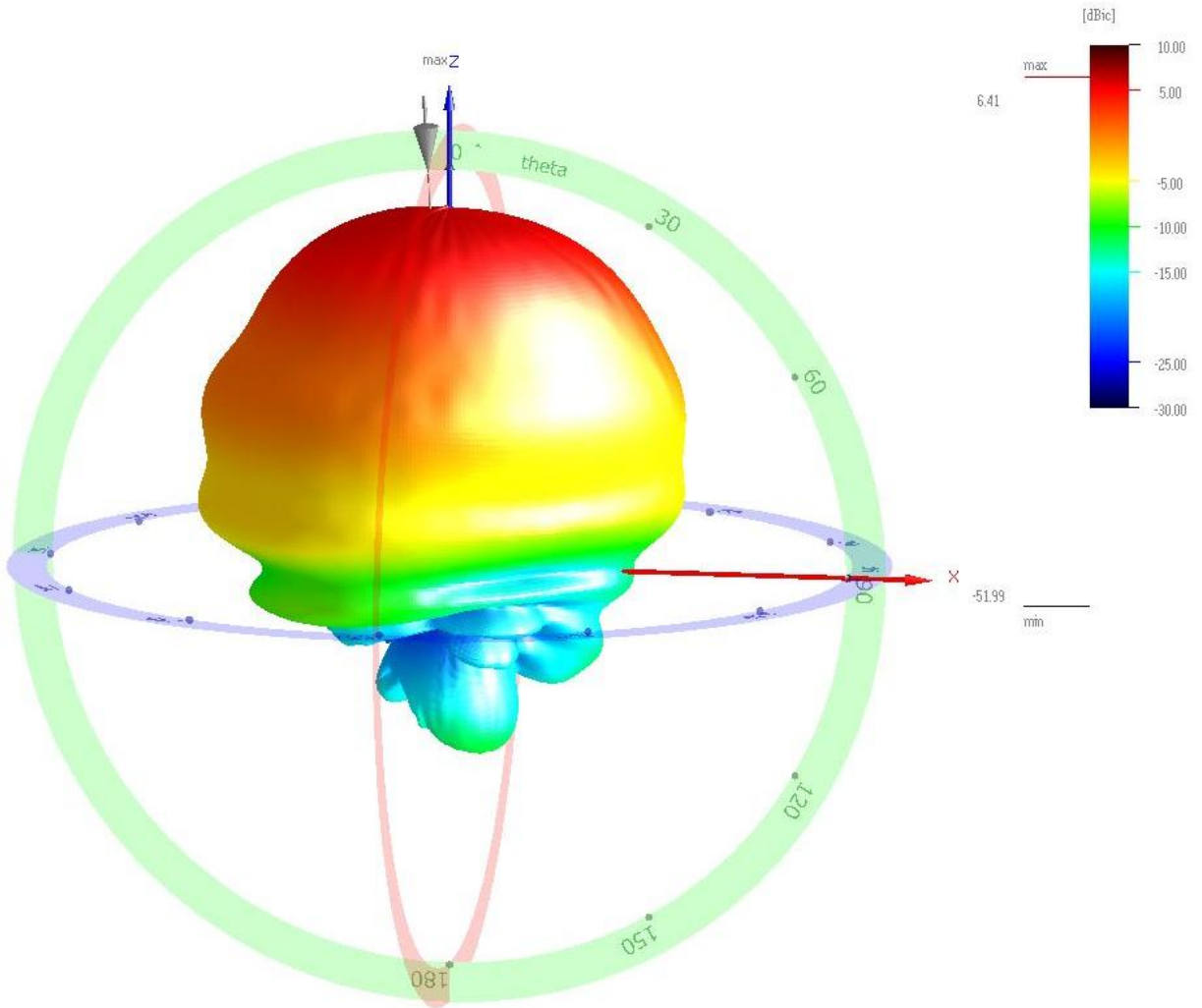
## ► Radiation Pattern for satellite band



Horizontal Pattern (0 deg-cut)

MODEL No. **AH-TSG0**

## ► Radiation Pattern @ GPS band



**3D Radiation Pattern @1575.42MHz**



# Satellite Antenna Series for Thuraya Band

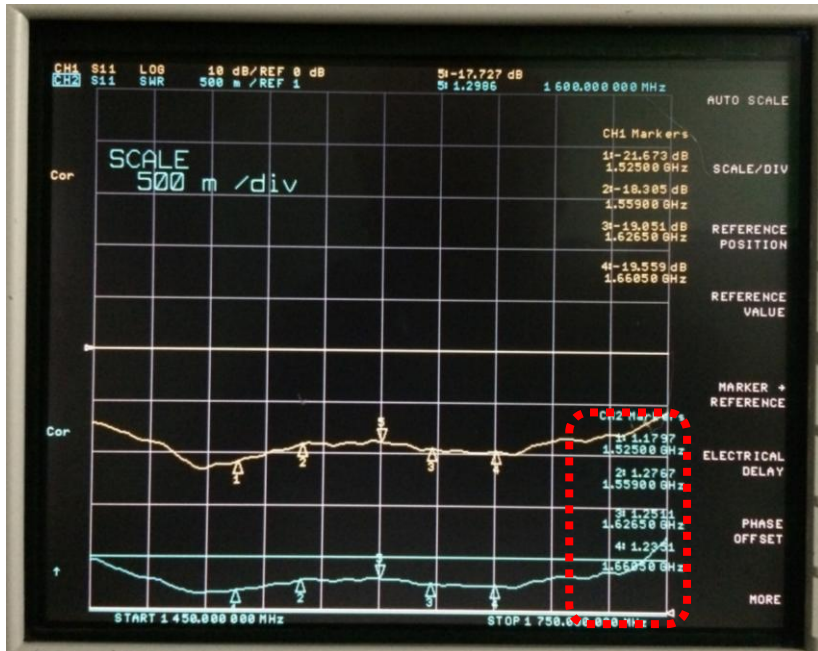
Rev : 1.0



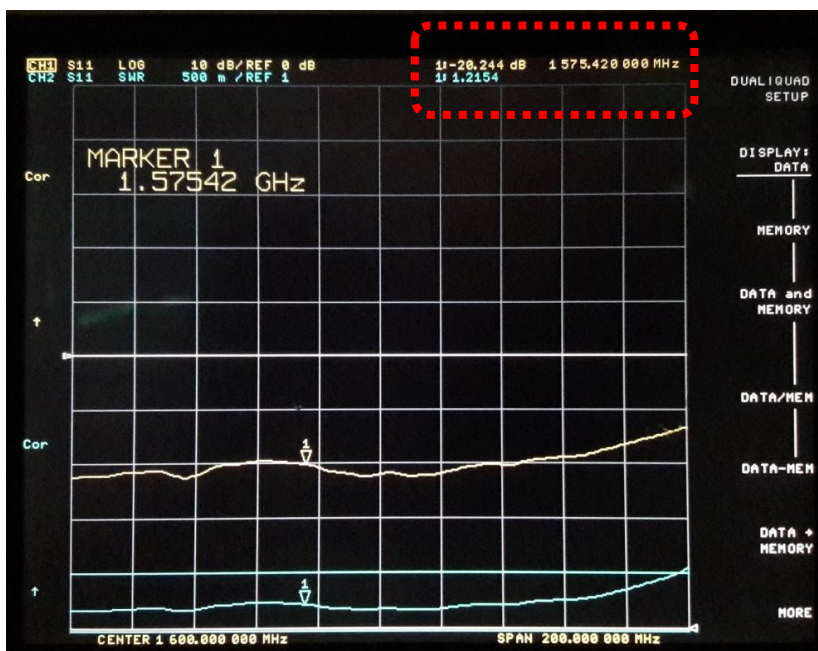
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MODEL No. **AH-TS00 , AH-TSG0**

## ► V.S.W.R @satellite band



## ► V.S.W.R @GPS band



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