

SPECIFICATION

| Part No. | : | AA.105.301621 |
|--------------|---|---|
| Product Name | : | Titan GPS Antenna AA.105 3M RG174 Fakra Code C Blue SMB(F) |
| Features | : | Magnetic Mount Covert stylish design Wide band input voltage 28db Gain Gain is Customizable IP-67 Waterproof |

Photos





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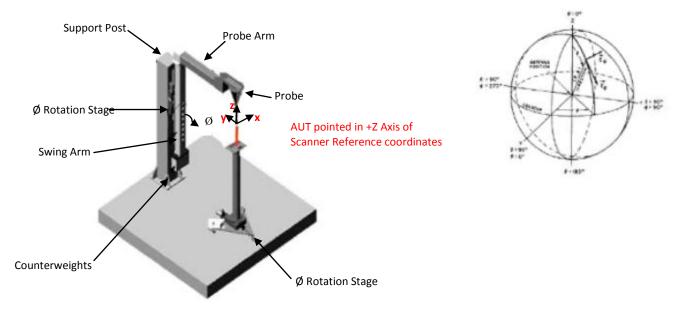
1.0 Electrical Specifications

| Ceramic Patch Specification | | | |
|-----------------------------|--|--|--|
| 25*25*4mm | | | |
| 25*25*4mm | | | |
| 1575.42±3MHz | | | |
| 10MHz | | | |
| 1.92 Max | | | |
| 2dB Typ. | | | |
| 2dBi Typ. | | | |
| 50Ω | | | |
| RHCP | | | |
| | | | |

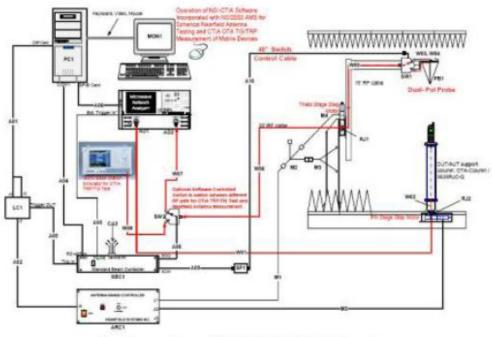
| LNA Specification | | | |
|--------------------|---------------|--|--|
| Frequency | 1575.42MHz | | |
| Impedance | 50Ω | | |
| VSWR | 1.92 Max. | | |
| Gain | 30dB Typ. | | |
| Gain at Connector* | 28dB | | |
| DC Power Input | 2.7~12V | | |
| Noise Figure | 1.5dB Typ. | | |
| Power Consumption | 11mA @30dB | | |
| Operating temp | -40°C ~ +85°C | | |
| Storage Temp | -40°C ~ +90°C | | |



2.0 Performance Measurement – Test Setup



NFT-500S 3D Chamber Coordinate System Definition

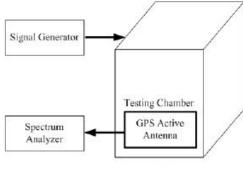


Configuration of NFT-500S 3D Chamber





Agilent E5071B Network Analyzer



Testing Chamber



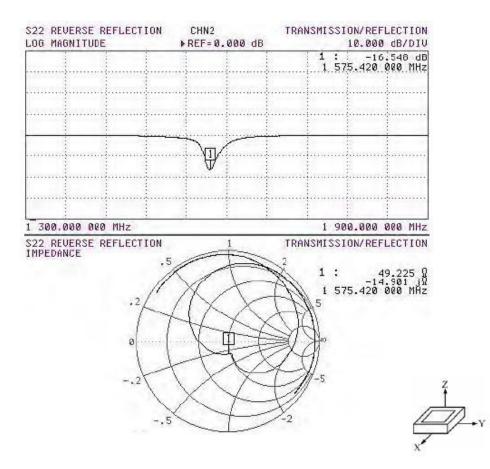
Anritsu 68147C Signal Generator



Anritsu MS2721A Spectrum

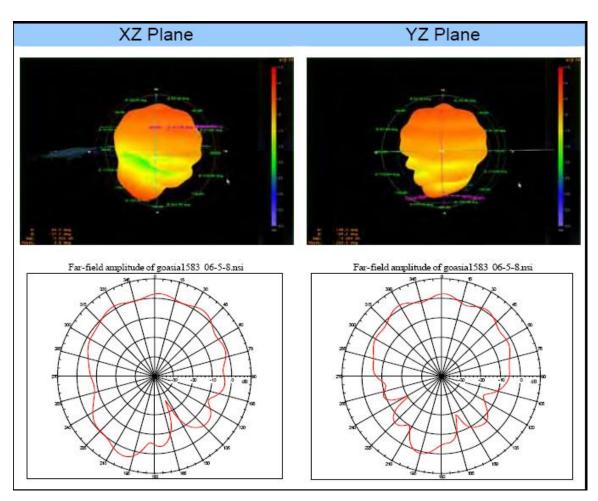


3.0 Ceramic Antenna S11 (with housing)





4.0 Ceramic Antenna Radiation Pattern (with housing)





5.0 LNA gain

| LOG MAGNITUDE | ▶REF=0.000 dB | 10.000 dB/DIV | |
|---------------|---------------|------------------------------------|--|
| | Ū. | 1 : 32.812 UB 1 575.420 000 MHz | |
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6.0 LNA S22





