

SPECIFICATION

- Part No. : **AA.106.301111**
- Product Name : Titan GPS/GALILEO Antenna AA.106
- Features : Magnetic Mount with High Grade 3M Double Sided Tape
Covert stylish design
Wide band input voltage
IP-67 Waterproof
3M RG174 SMA(M) Straight
RoHS Compliant



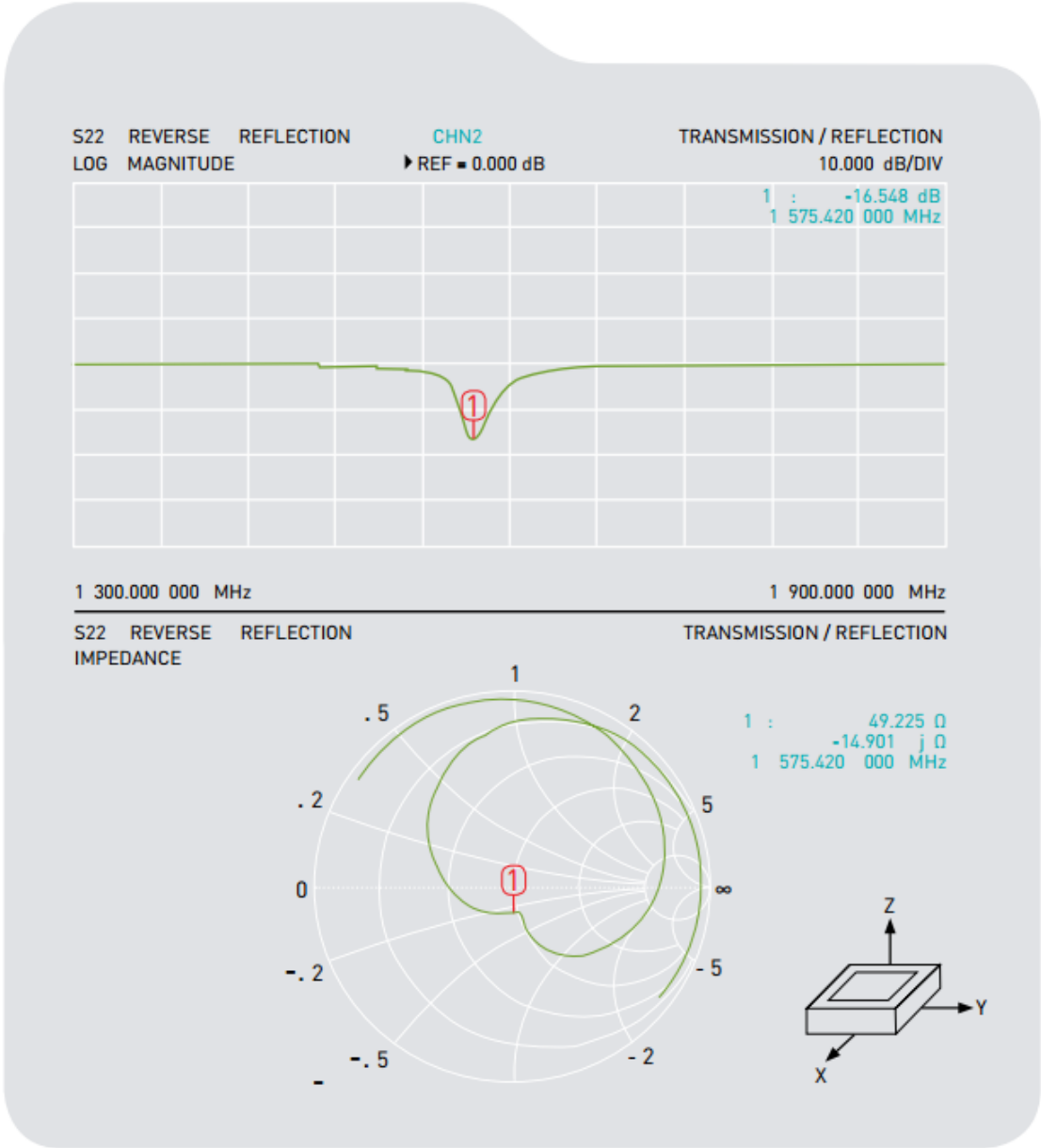
1. Introduction

Our AA.106 Titan external antenna is ideal for robust, covert installations where durability and small size is paramount. It is used in telematics and M2M applications, for example in commercial vehicle installations for fleet management. It is fully waterproof to IP67 rating. Standard cable and connector version is 3 metre RG174 and SMA(M). Cable length and connector type are customizable upon request.

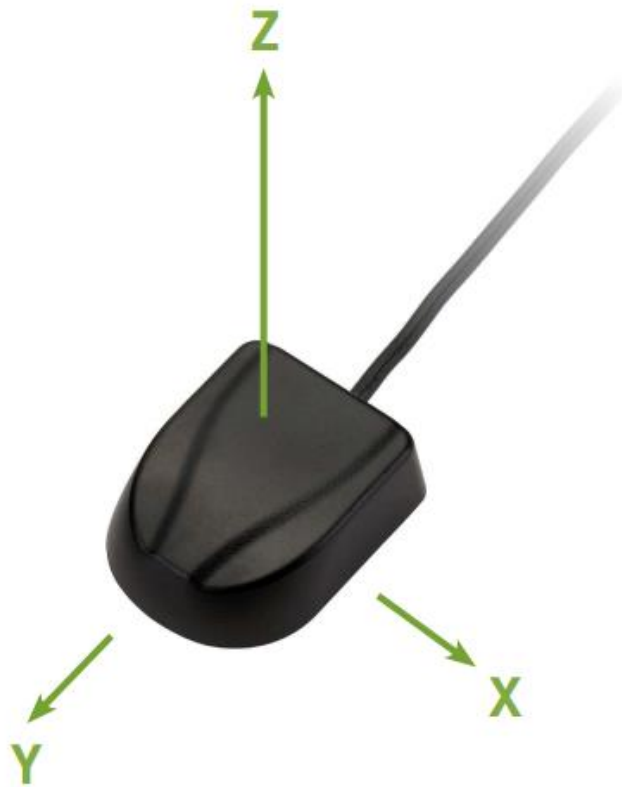
2. Specifications

ELECTRICAL	
Centre Frequency	1575.42±3MHz
Bandwidth	10MHz
VSWR	1.92 Max
Axial Ratio	3dB typ.
Gain @Zenith	2dBic typ.
Impedance	50Ω
Polarization	RHCP
LNA	
Frequency	1575.42MHz
Impedance	50 Ω
VSWR	1.92 Max
Gain	30dB typ.
Gain at Connector*	28.4dB
DC Power Input	2.7-5V
Noise	1.5dB typ
Power Consumption	4.7mA @2.7V 6mA @3.3V 10.3mA @5V
MECHANICAL	
Dimensions	25*25*4
ENVIRONMENT	
Operating Temperature	-40°C to +85°C
Storage Temperature	-40°C to +90°C

3. Patch antenna return loss & impedance

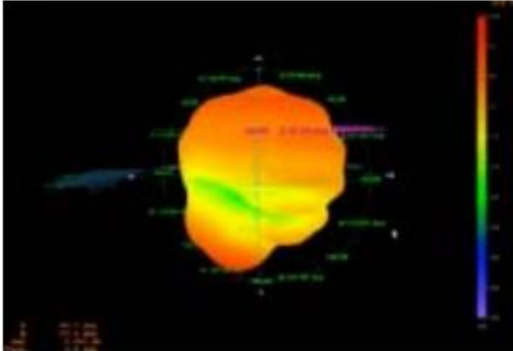


4. Ceramic Patch Radiation Pattern (with housing)

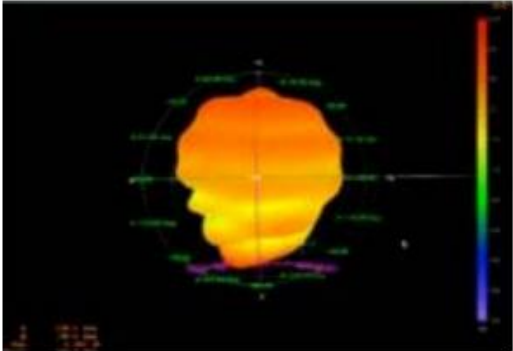


4.1. XZ Plane & YZ Plane

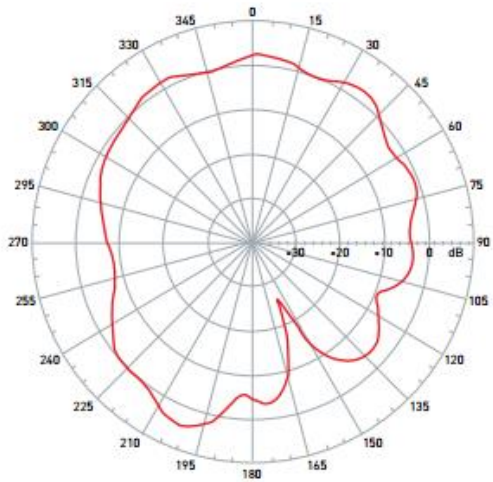
XZ Plane



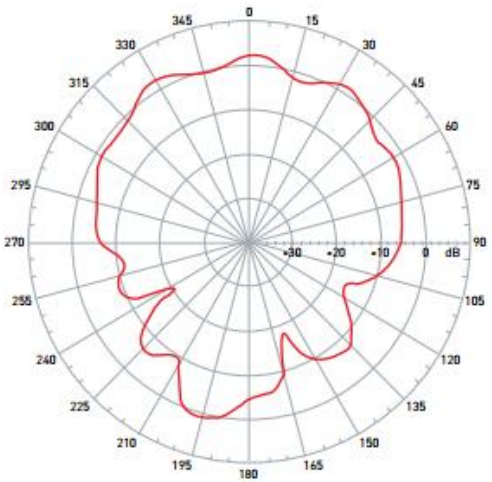
YZ Plane



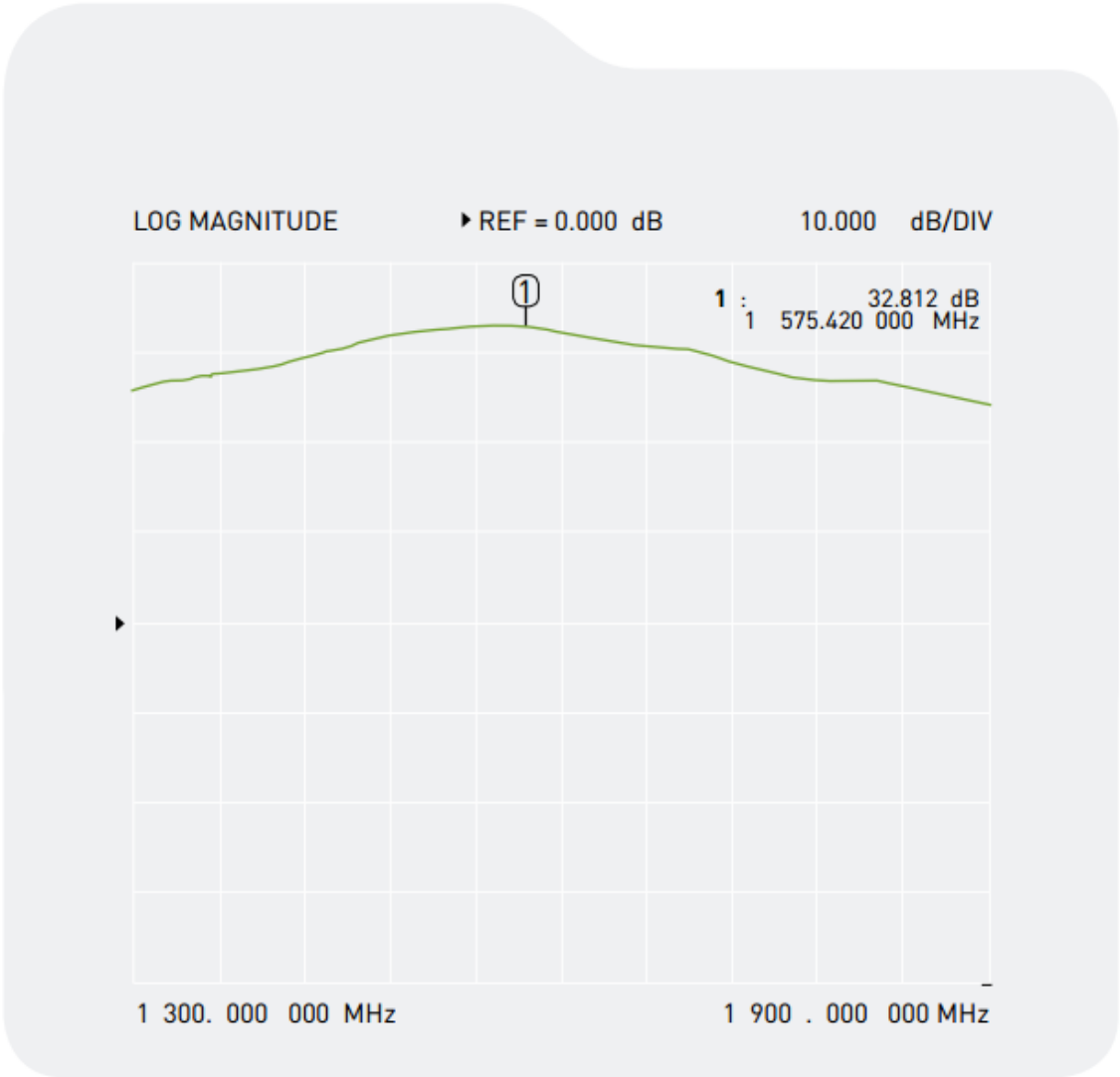
Far-field amplitude of goasial
1583 06-5-8.nsi



Far-field amplitude of goasial
1583 06-5-8.nsi



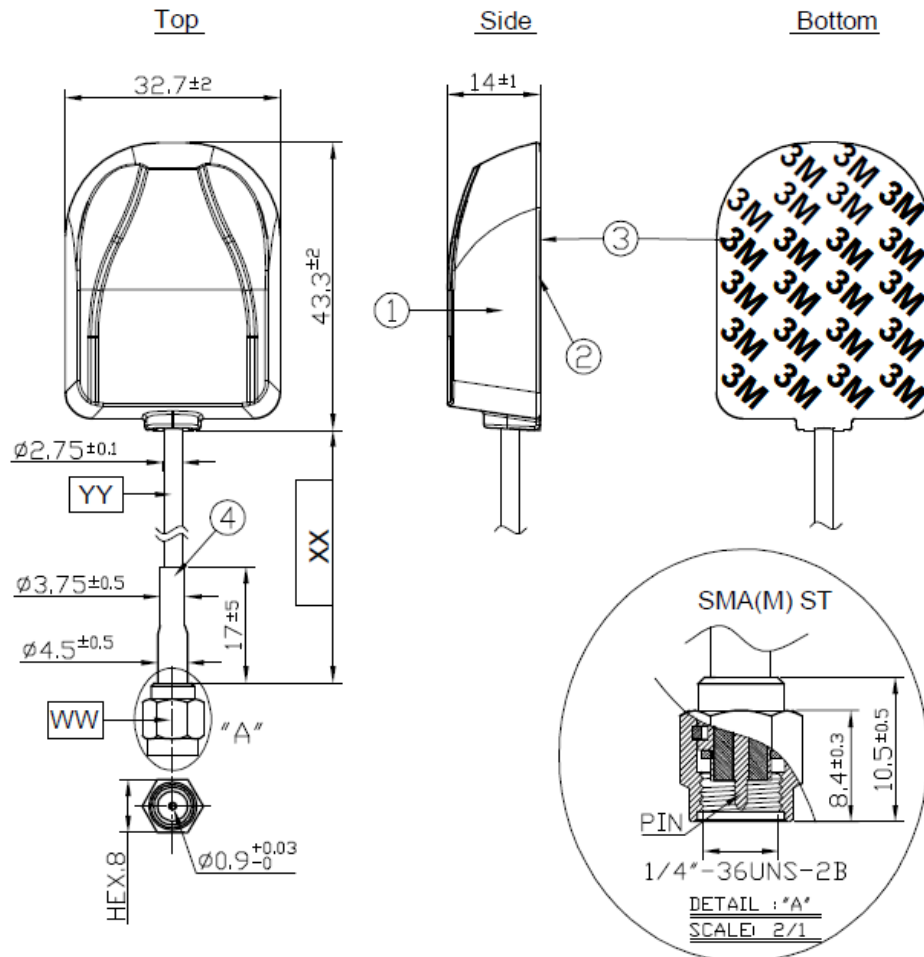
5. LNA Gain



6. LNA S22

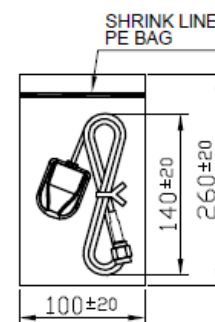


7. Drawing



	Name	Material	Finish	QTY
1	GPS Antenna Housing Top	PC	Black	1
2	GPS Antenna Housing Bottom	PC	Black	1
3	Double Sided Adhesive	3M 4612	White	1
4	Heat Shrink Tube	PE	Black	1

	Name	Spec	Finish	QTY
WW	Connector Type	SMA(M) ST	Gold	1
XX	Cable Length	3000±30mm	Black	1
YY	Cable Type	RG174	Black	1



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