

Specification

Part No. : **A.01.C.301111**

Product Name : GPS/Galileo Hercules Heavy Duty Screw

Mount Antenna

Description : Two Stage 30dB Active GPS/GALILEO Antenna

Height 29mm Diameter 49mm

UV and Vandal Resistant PC Housing 3m RG-174 RP-SMA(M) – Standard

RoHS & REACH Compliant

Applications : Location based services

M2M

Telematics

Remote monitoring

Timing for base stations IP65 Rated Enclosure Vehicle fleet tracking





1. Introduction

The A.01 Hercules is a high performance thread mount GPS/GALILEO antenna designed for external use on vehicles and outdoor assets. Designed for heavy duty work with one piece C&C machined nickel steel base plate and threads, there are also convenient side slots for running cables laterally. Durable UV resistant ABS housing is IP65 rated, resistant to vandalism and direct attack. At only 29mm high it complies with the latest EU directives for height restrictions, whilst also enabling covert operation with a diameter of 49mm.

Cable lengths, types and connectors are fully customizable. For cable lengths above 5m please use our 40dB LNA A.03 model and low loss cable.



2. Specifications

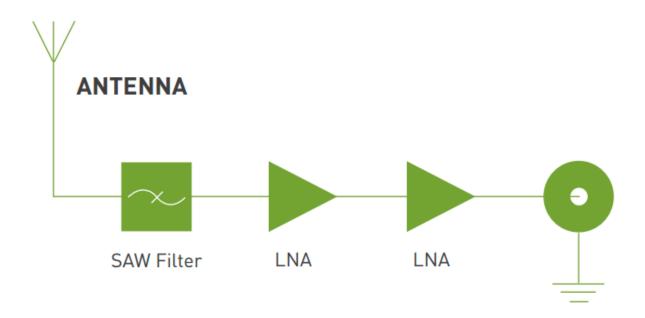
ELECTRICAL			
Frequency	1575.42MHz ± 1.023MHz		
Dimensions	Height 29mm, Diameter 49mm,		
Impedance	50 ohm		
VSWR	2.0 Max		
GPS Patch Gain	2.0dB Passive Gain at Zenith -1.0dBi Gain at 10 degrees elevation		
Axial ratio	3.0 dB max		
Polarization	RHCP		
Out Band Rejection	fo = 1575.42 MHz fo \pm 30 MHz 5dB Min. fo \pm 50 MHz 20dB Min. fo \pm 100 MHz 25dB Min.		
Input Voltage	Min.1.8V	Typ. 3.0V	Max. 5.5V
Total Gain @ Zenith	25dBic	30dBic	32dBic
Current Consumption	6mA	12mA	30mA
Noise Figure	2.7dB	3.0dB	3.7dB

MECHANICAL		
Housing	UV resistant PC	
Thread and Base Plate	Nickel Plated Steel/Zinc	
Sealing Foam	CR4305 with 3M9448B double-side adhesive	
Waterproof	IPX5	
Thread Diameter	18mm	
Recommended Mounting Torque	24.5N·m	
Maximum Mounting Torque	29.4N·m	
Operating Temperature	-40°C ~ +85°C	
Storage Temperature	-40°C ~ +105°C	
Cable/Connectors	3M RG-174 Cables and SMA Connector (std) Fully Customizable	
Ingress Protection	IP65	

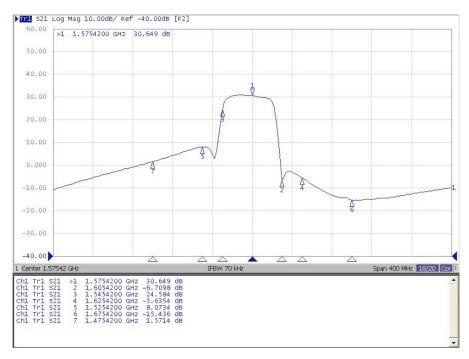


3. LNA

3.1. LNA Functional Circuit



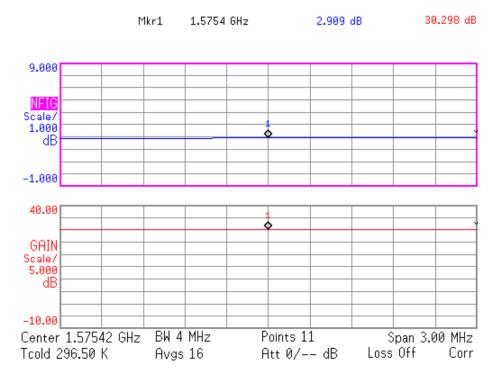
3.2. LNA Gain and Out-band Rejection @ 3.0V



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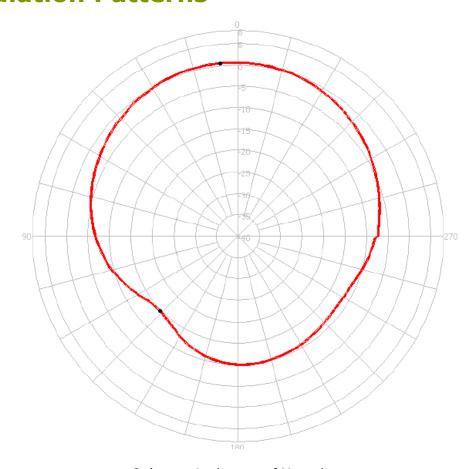


3.3. Noise Figure





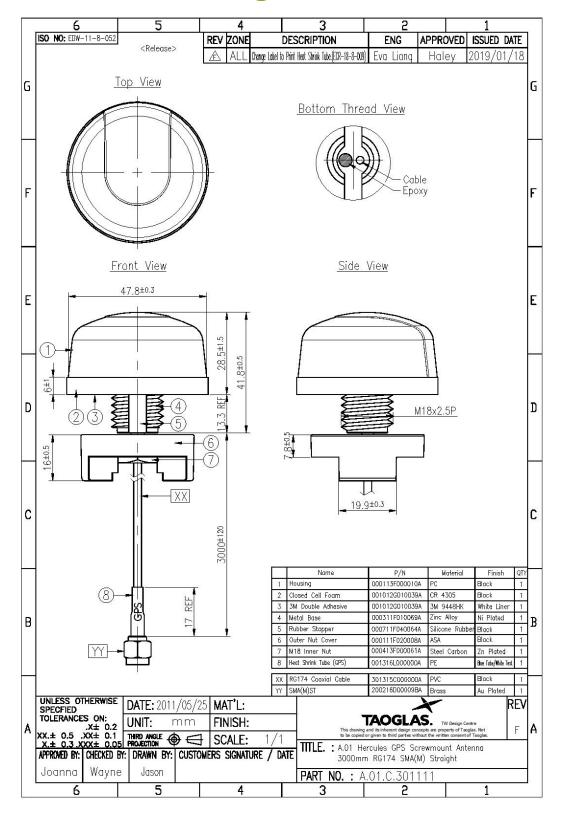
4. Radiation Patterns



0 degree is the top of Hercules.

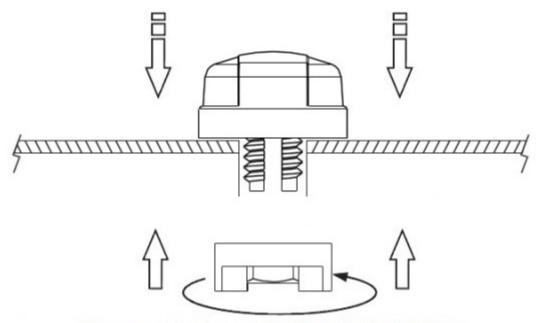


5. Mechanical Drawing





6. Installation



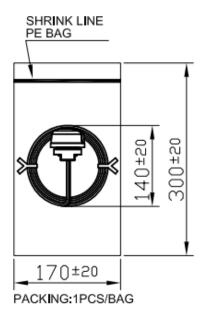
Recommended torque for Mounting is 24.5N·m Maximum torque for mounting is 29.4N·m

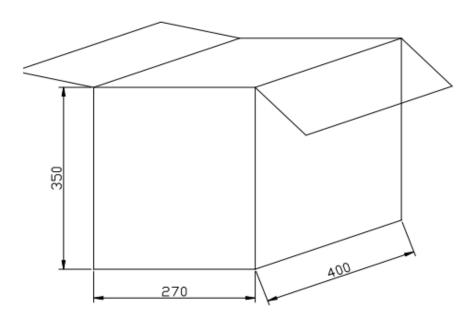


7. Packaging

1pcs antenna per big PE bag 40 big PE bags per box

Unit: mm





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