

**5.1GHz - 5.9 GHz 12dBi High Gain & Wide Band Omni-Directional Antenna****APPLICATIONS AND FEATURES****Applications:**

- 5.1 – 5.9 GHz ISM Band
- 5.3 GHz Band Applications
- 5.4 GHz Band Applications
- 5.8GHz UNII applications
- IEEE 802.11a Wireless LAN
- Unlicensed European 5.4 GHz Band Applications
- WiMAX Technology
- 5.8 GHz Wireless Video Systems

Features :

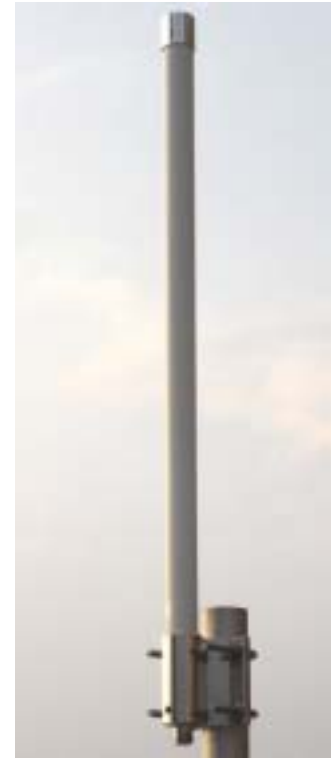
- Superior performance
- Light weight
- All weather operation
- DC Short lightning protection
- Installed for vertical
- Includes tilt and swivel mast mount
- Frequency Ultra-wide
- Can be installed for either vertical or horizontal polarization
- RoHS Compliant

SPECIFICATIONS:**Electrical Specifications**

Frequency Range	5100 – 5900 MHz
V.S.W.R	1.5
Return Loss	-15db
Antenna Type	Collinea
Gain	12dBi
Polarization	Vertical
Maximum Power	50W
Vertical Beam-with	10 Deg
Horizontal Beam-with	360 Deg
Impedance	50 Ohm
Connector	N-Female

Mechanical Specifications

Length	570mm
Diameter	68mm
Weight	450g
Wind Survival	> 150 MPH
Radome Material	White Fiberglass
Operating Temperature	- 40 to + 80
Clamps	U-bolt
Mounting	32 – 45mm
RoHS Compliant	Yes



The OA-515912 belongs to Omni-Directional antennas, can be used in an outdoors type a base set an usage, the antenna OA-515912 usage uses in the frequency scope of the 5.1~5.9 GHz(the Wireless LAN of the IEEE 802.11a)

The antenna OA-515912 adoption aluminum pushes a type(anode inside), antenna tube adoption glass fiber manufacturing, in order to can insure the enduring of product and adapt various environment, the antenna also adopts the most convenient construction method on the gearing, making a convenience of an user to install quickly,

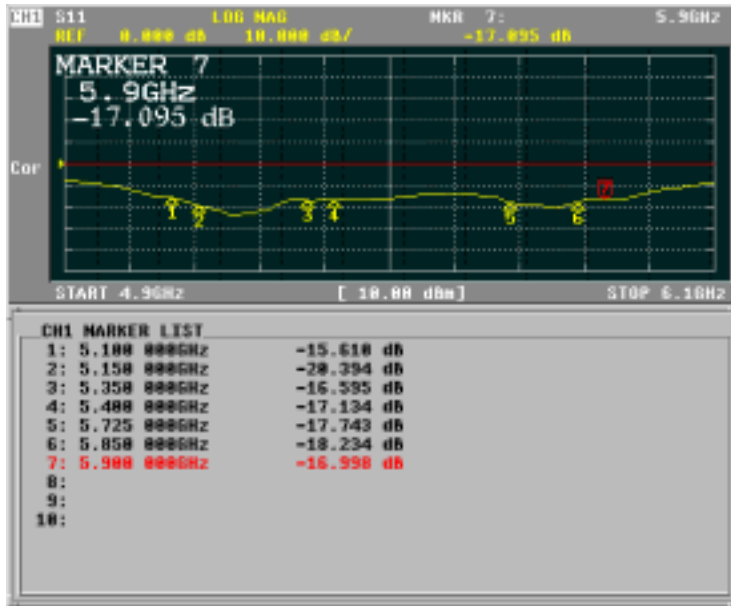
The OA-515912 guards a pass through strict process while producing construction manufacturing, at various waterproof characteristic and the radiation characteristic, pass by strict of test

The antenna includes mounting bracket and hardware for up to 2" OD masts. Made with fiberglass and comes with an integrated N Female connector.

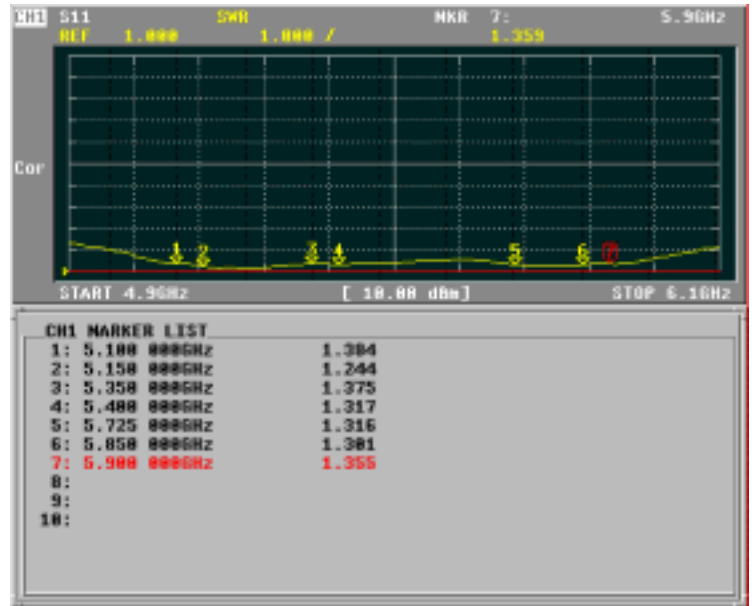
OA-515912 Test Report

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Return loss & V.S.W.R

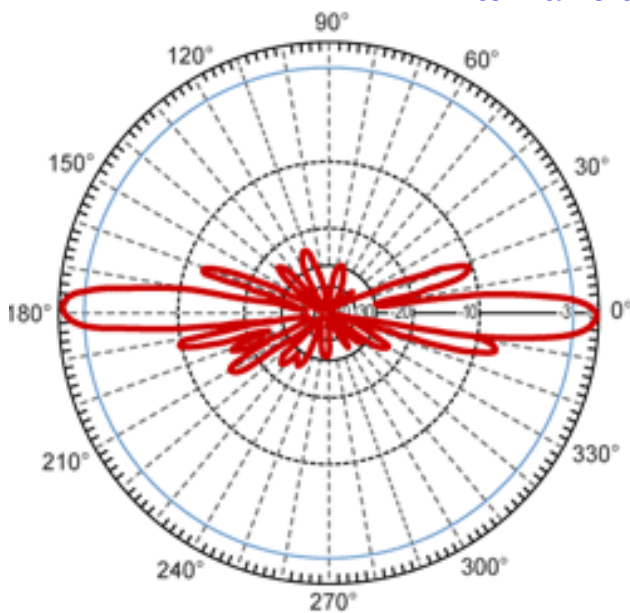


Return loss

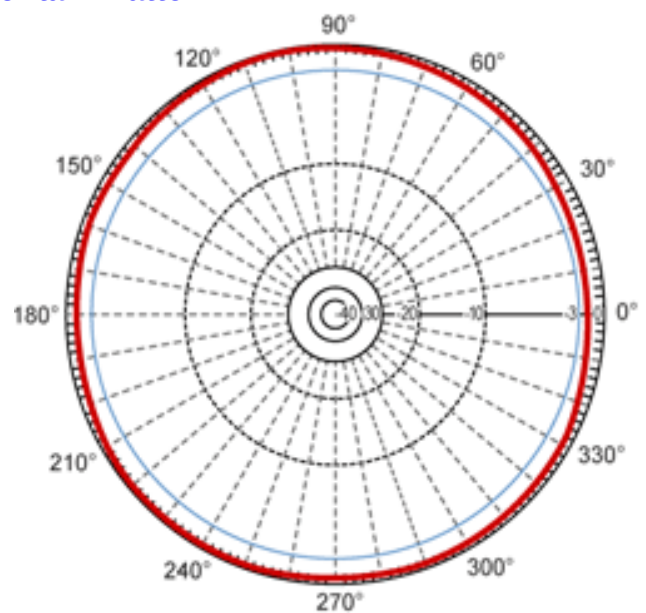


V.S.W.R

Antenna Vertical & Horizontal Pattern



E-plane co-pol ----- 3-dB beam-with=8 Deg

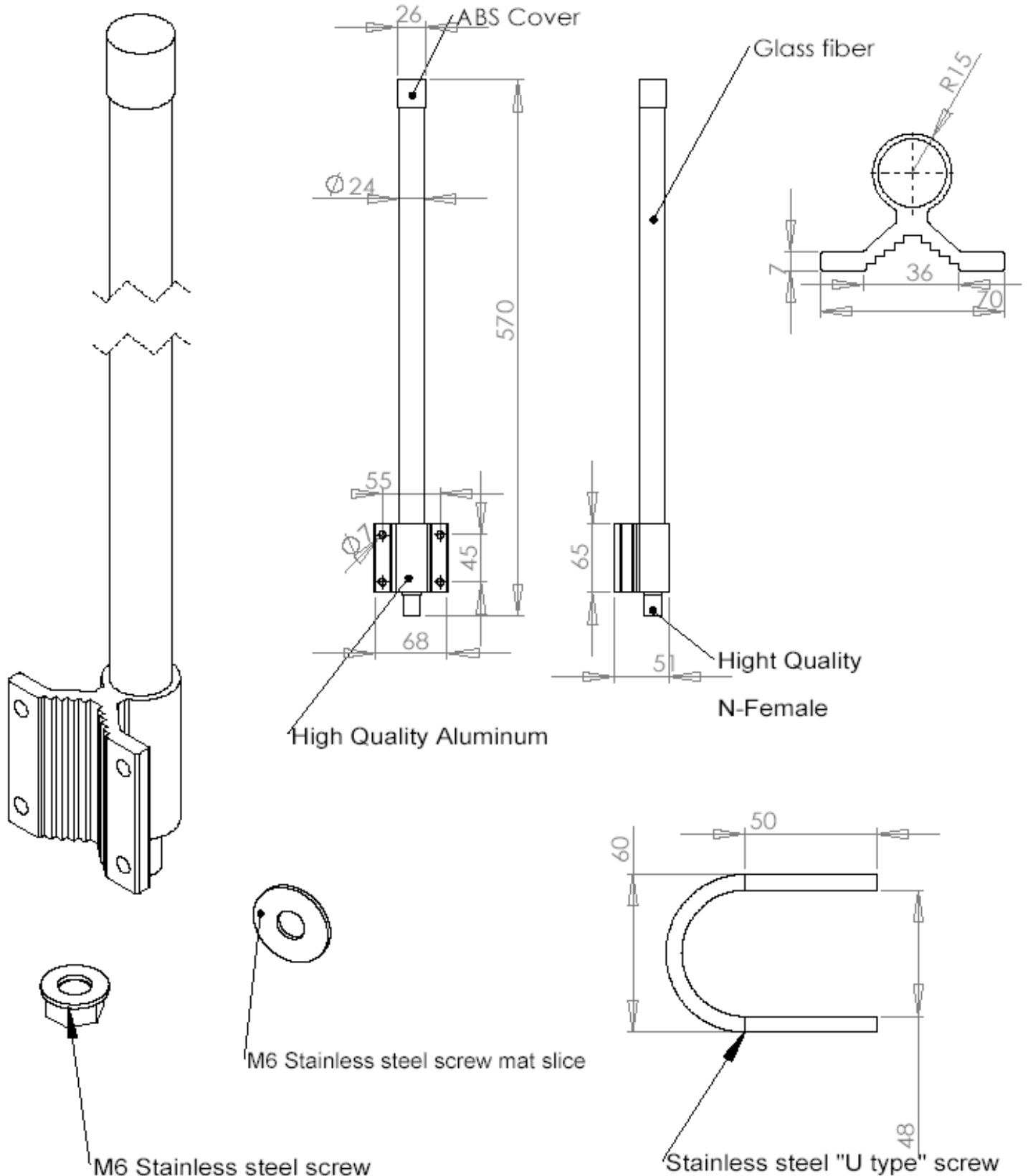


H-plane co-pol ----- 3-dB beam-with=360 Deg

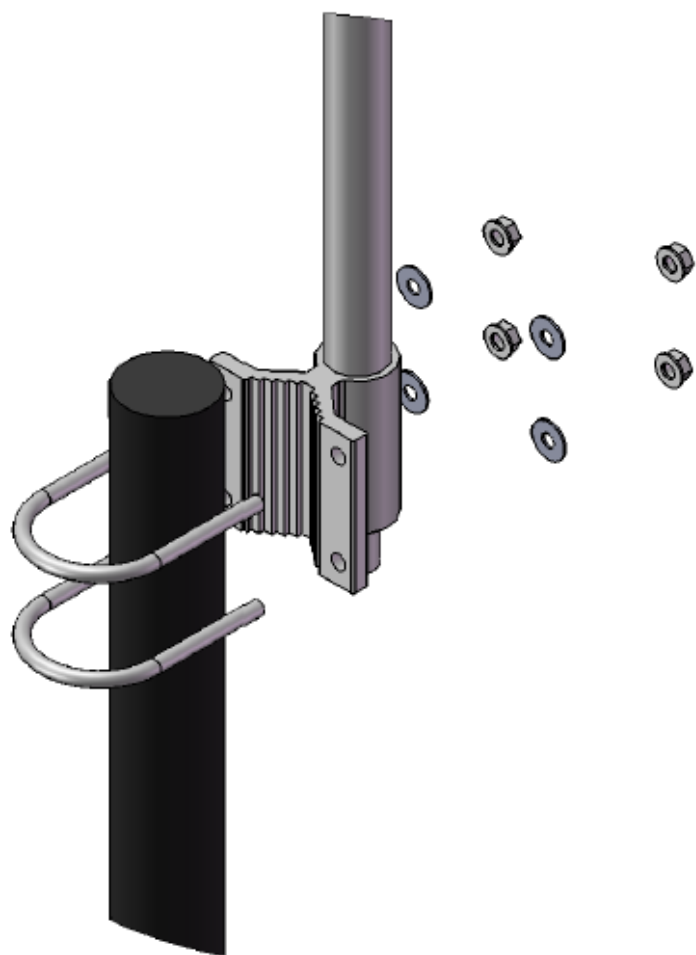
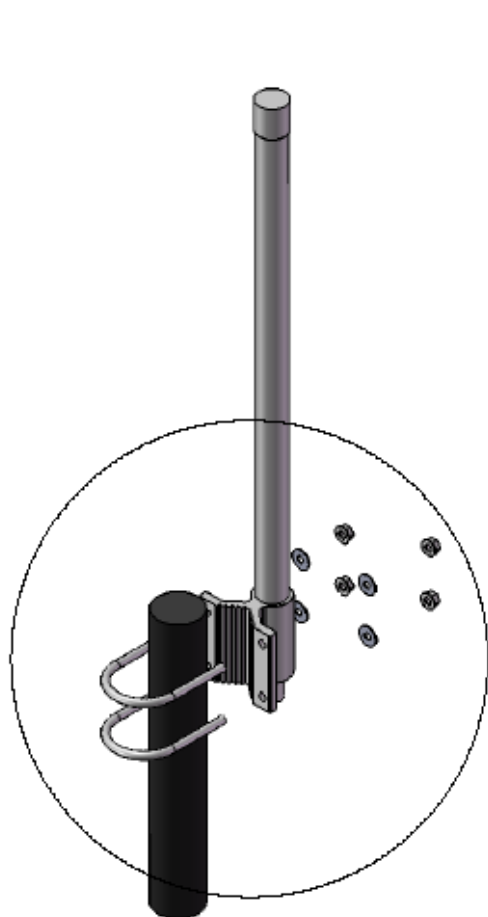
FT-RF

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Product name	Amount	Remarks
Antenna	1	Glass Fiber and Aluminum
M6 "U" type screw	2	Stainless steel
M6 screw	4	Stainless steel
M6 Screw mat slice	4	Stainless steel



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