

# Antenna Installation Instructions

Part Number: HWX-32.5D-HP

## Description

This antenna consists of a 1 m (3.3ft) reflector, feeder and antenna mounting bracket. The mounting bracket is designed for installation on vertical pipe of diameter 35mm to 75mm. The precise antenna mounting bracket provides adjustment ranges of  $\pm 19^\circ$  fine elevation and  $\pm 11^\circ$  fine azimuth.

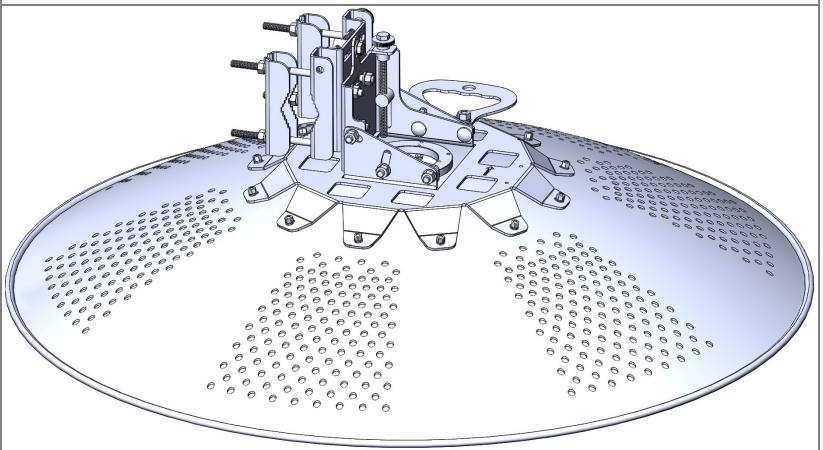
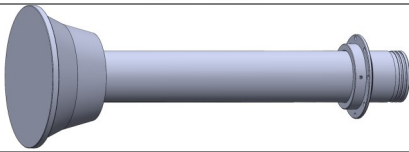
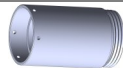
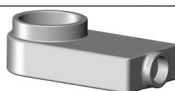
## Notice

The installation, maintenance or removal of antenna systems requires qualified, experienced personnel. This installation instructions have been written for such personnel. Antenna systems should be inspected once a year by qualified personnel to verify proper installation, maintenance, and condition of equipment. Honorwave disclaims any liability or responsibility for the results of improper or unsafe installation practices.

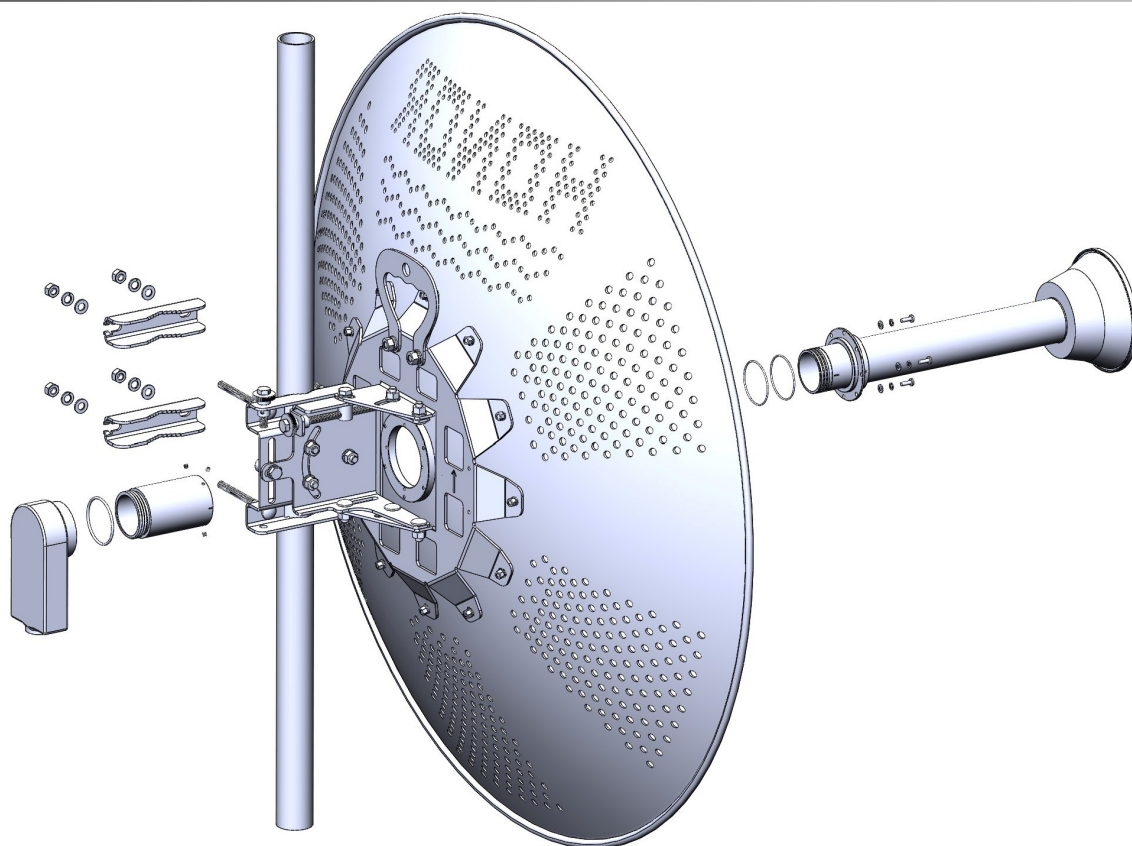
## Tools Required

| Item | Contents                  | Qty | Image                                                                               |
|------|---------------------------|-----|-------------------------------------------------------------------------------------|
| 1    | Combination Wrench, 13mm  | 1   |  |
| 2    | Screwdriver, cross-recess | 1   |  |

## Part List

| Item | Contents                         | Qty | Description / Image                                                                   |
|------|----------------------------------|-----|---------------------------------------------------------------------------------------|
| A    | Reflector 1 m (3.3ft) & Mounting | 1   |   |
| B    | Feeder                           | 1   |   |
| C    | Transition                       | 1   |  |
| D    | Radio C5X                        | 1   |   |
| E    | Screw M4x12, Cross, st           | 4   |  |
| F    | Spring Washer M4, st             | 4   |                                                                                       |
| G    | Washer M4, st                    | 4   |                                                                                       |
| H    | Screw M4x4, Allen, st            | 1   |  |
| I    | Oring 2.5x50                     | 1   |  |
| J    | Oring 1.5x48                     | 2   |  |
| K    | Installation Guide               | 1   |                                                                                       |

## Installation



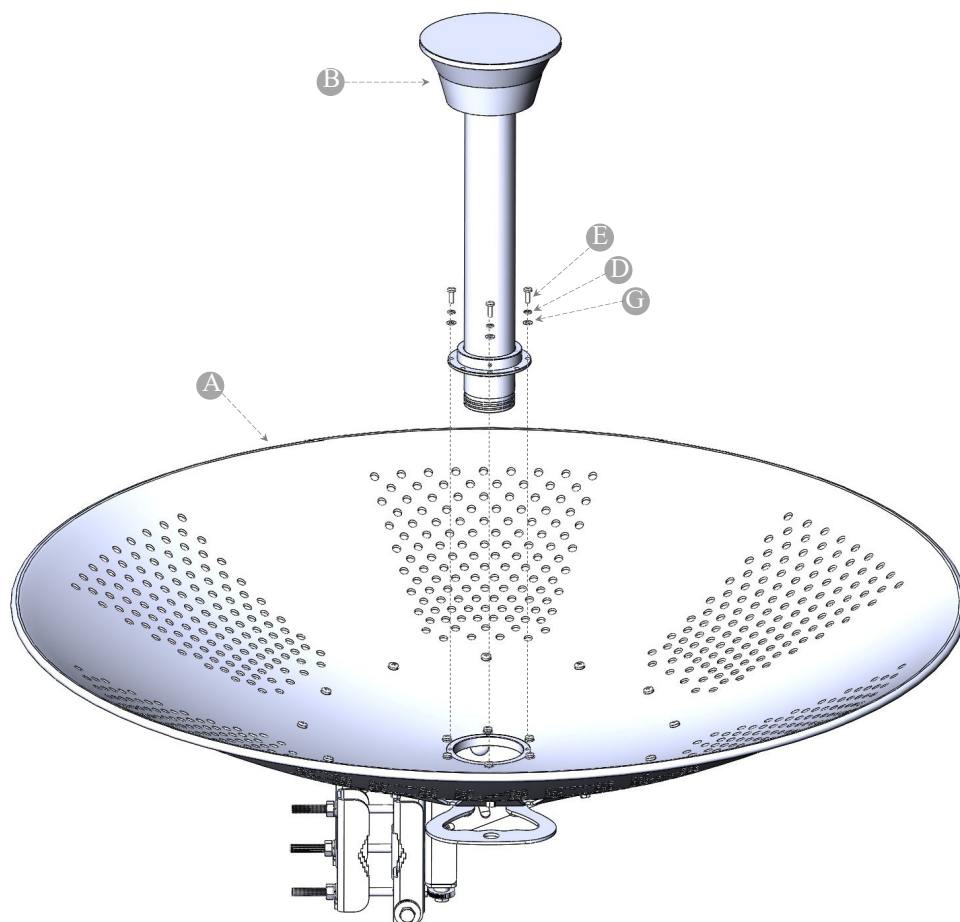
### 1 Install Feed to Reflector

Install Feed [B] to Reflector [A] by:

[E] Screw M4x12; 4 pcs

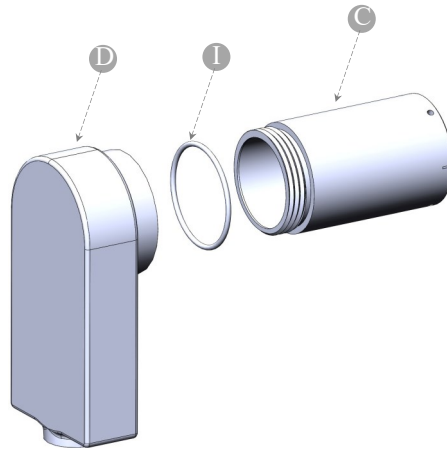
[F] Spring Washer M4; 4 pcs

[g] Washer M4; 4 pcs



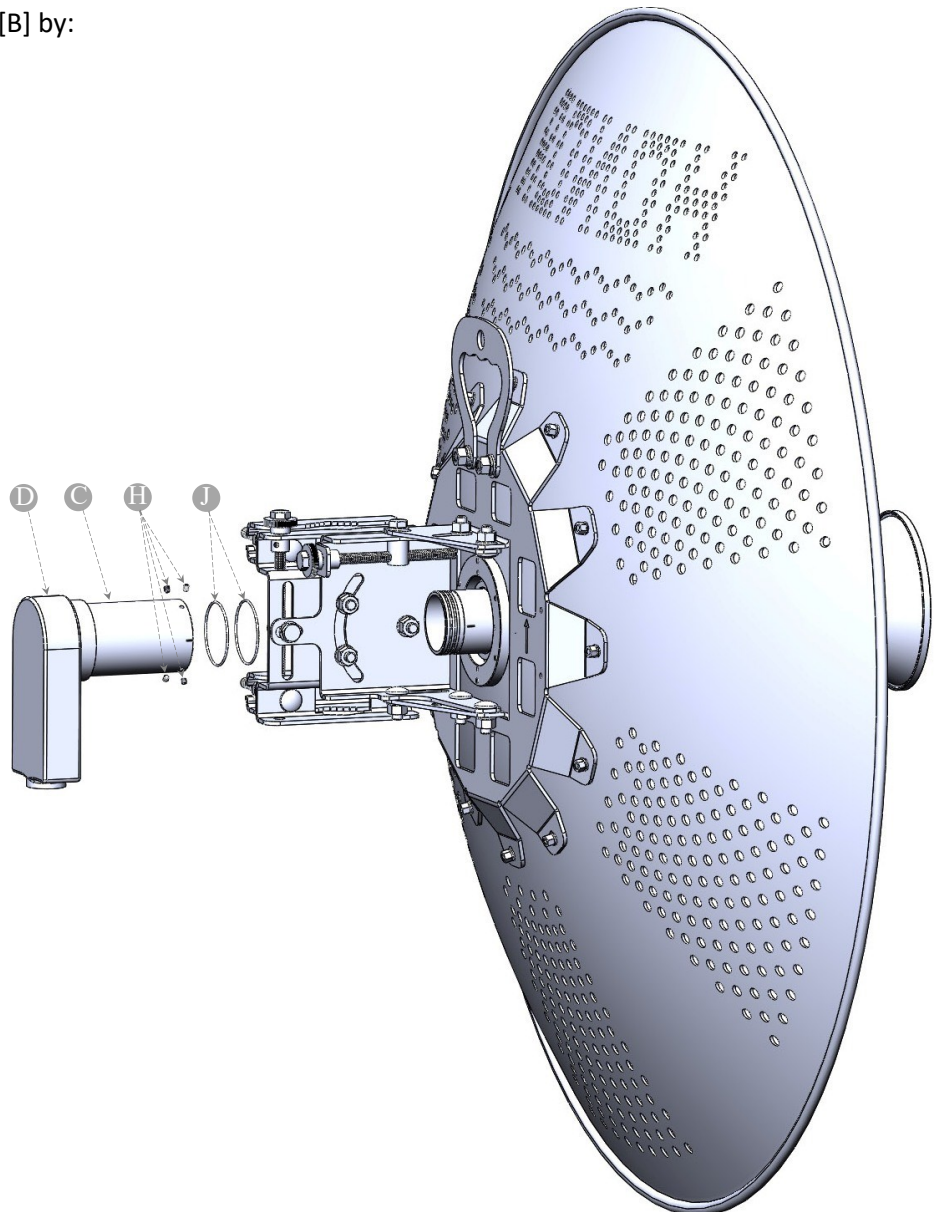
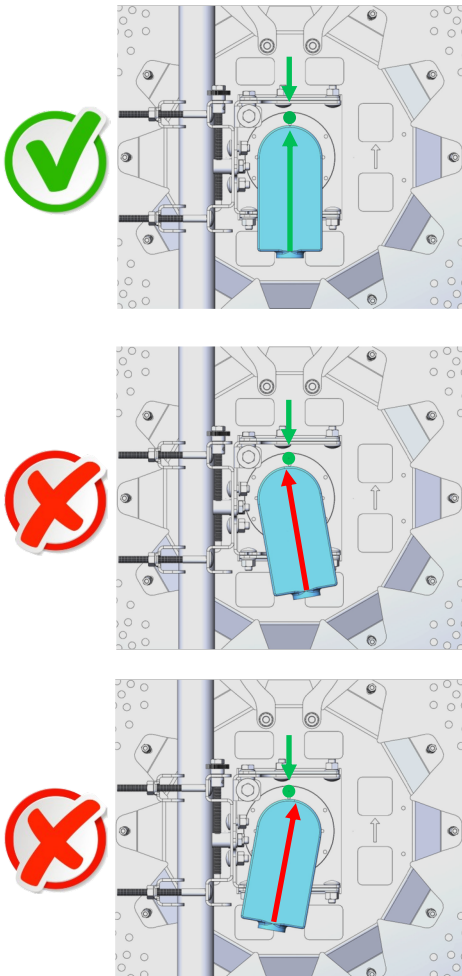
## 2 Attach Transition to Radio

Install Transition [C] to Radio [D] by:  
[I] Oring 2.5x50; 1 pcs



## 3 Adjust Radio to Antenna

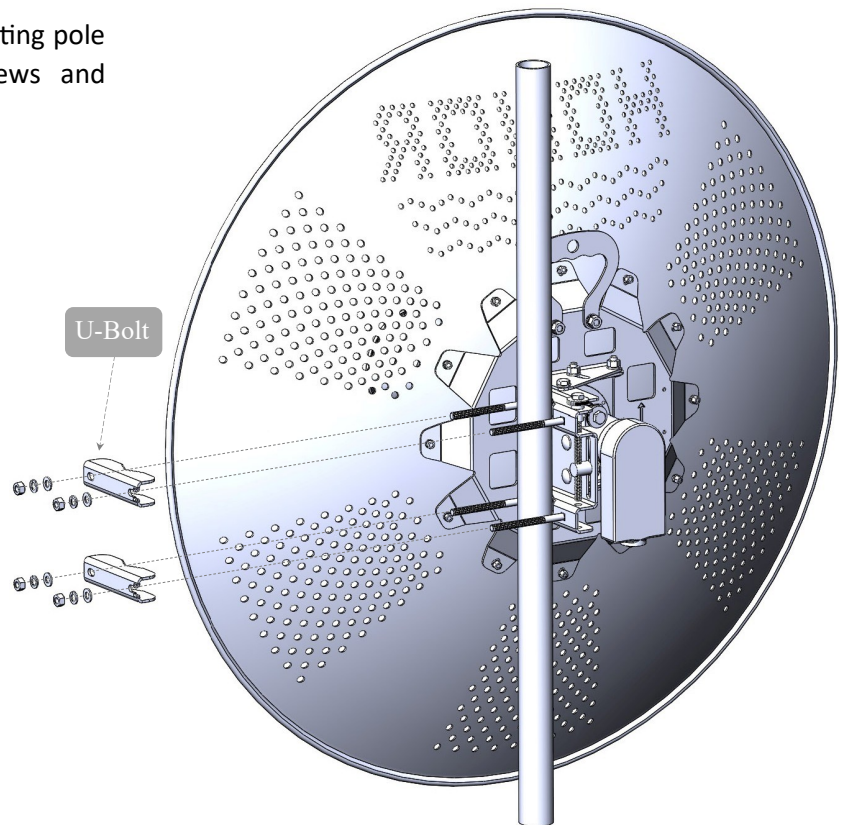
Install Transition [C] & Radio [D] to Feed [B] by:  
[H] Screw M4x4, Allen; 4 pcs  
[J] Oring 1.5x48; 2 pcs





## 4 Attach Antenna to Mounting Pole

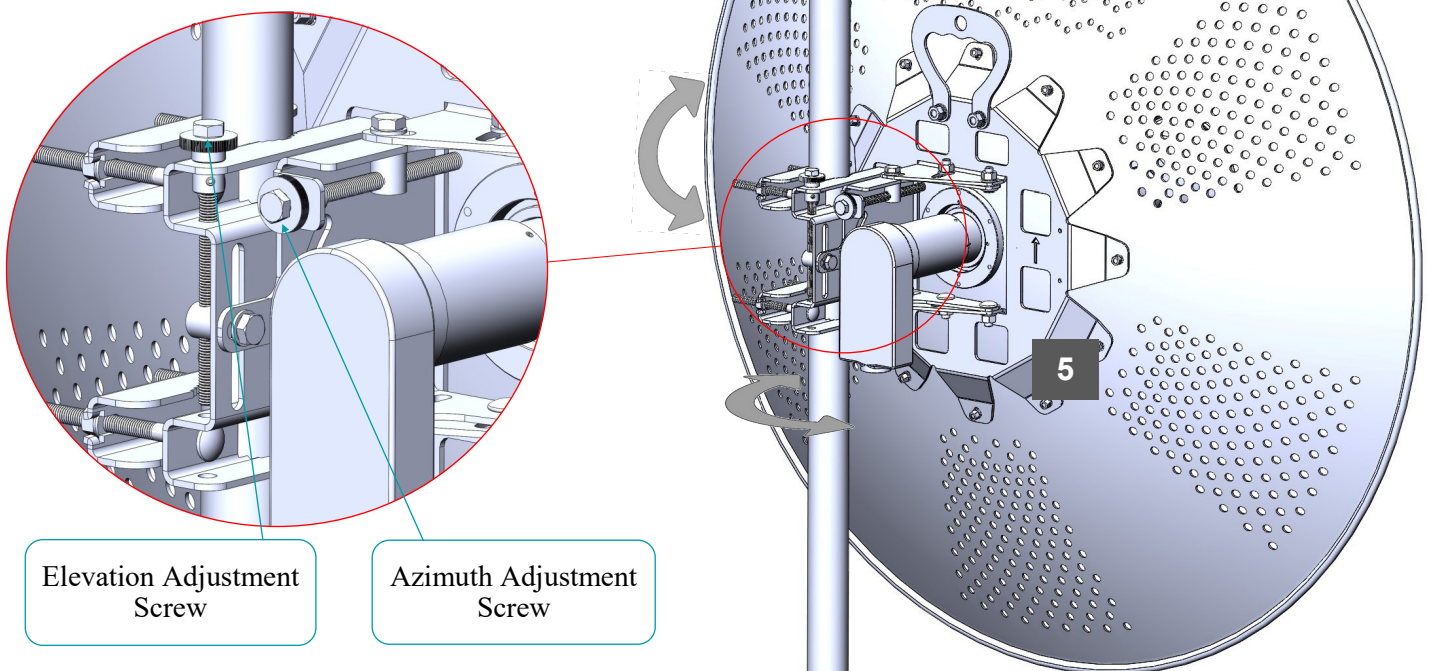
Follow the picture to attach antenna to mounting pole then place the U-bolts on the M8x120 Screws and tighten M8 nuts.



## 5 Adjust Azimuth and Elevation

After an approximate alignment, both elevation and azimuth could be precisely adjusted by tightening/loosening the elevation and azimuth screws shown in picture.

When azimuth/elevation are set, tighten all nuts to approximately 14N-m (10 lb-ft).



### TECHNICAL DATA SHEET

#### General Specifications

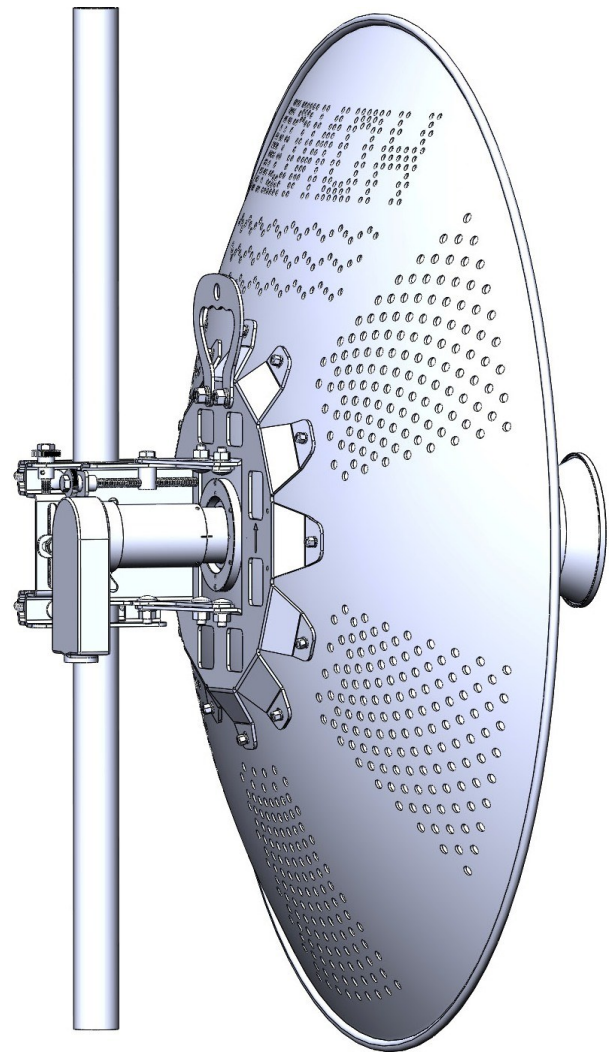
|                 |                |
|-----------------|----------------|
| Model Number    | HWX-32.5D-HP   |
| Diameter (ft/m) | 3.3/1          |
| Polarization    | Dual-slant 45° |

#### Electrical Specifications

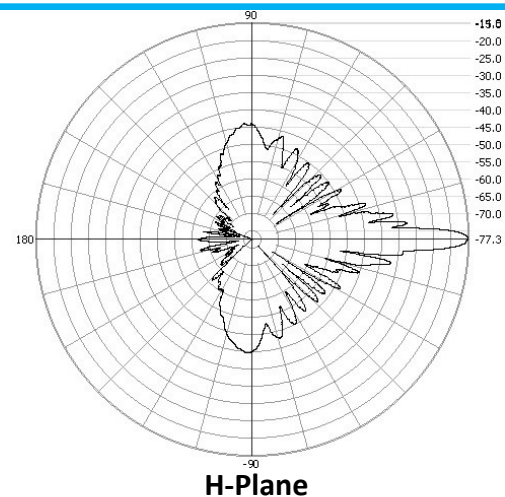
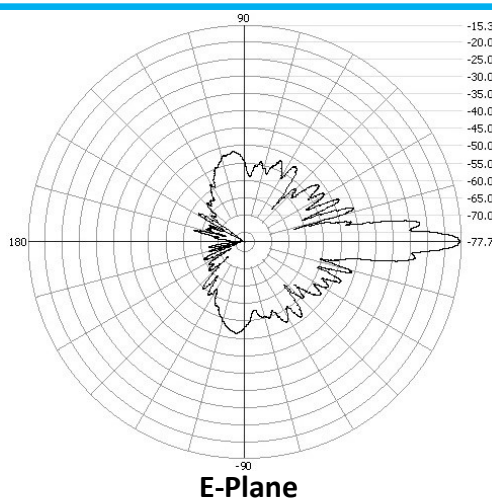
|                        |                               |
|------------------------|-------------------------------|
| Input                  | 2 × N-Female                  |
| Frequency Range (MHz)  | 4.5 GHz to 5.5 GHz            |
| VSWR                   | 1.4:1                         |
| Impedance ( $\Omega$ ) | 50                            |
| Gain (dBi)             | 32.5                          |
| 3dB Beamwidth          | H-plane: 3.4° / E-plane: 3.4° |
| F/B Ratio (dB)         | 40                            |

#### Mechanical Specifications

|                              |                 |
|------------------------------|-----------------|
| Weight With Holder (kg)      | 10.5 kg         |
| Color                        | Golden          |
| Plating                      | Dacromet        |
| Screws and Nuts              | Dacromet        |
| Fine Azimuth Adjustment      | $\pm 11^\circ$  |
| Fine Elevation Adjustment    | $\pm 19^\circ$  |
| Wind Loading (km/h)          | 200             |
| Operating Temperature        | -40 °C to 60 °C |
| Supportable Comparative Damp | 90%             |



#### Patterns



For further technical support leave message at

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whatsapp: +964 770 607 7724 8 A.M - 5 P.M (GMT+3)

All messages will be answered in 2 working days.