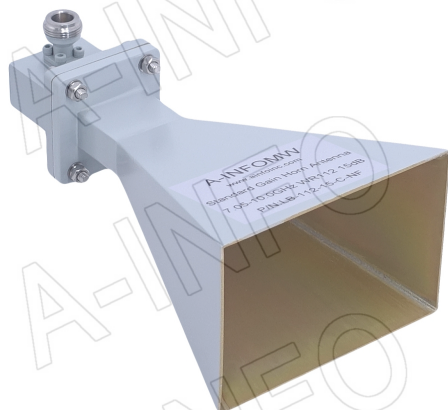


For reference only. See data sheet for the detailed specifications.

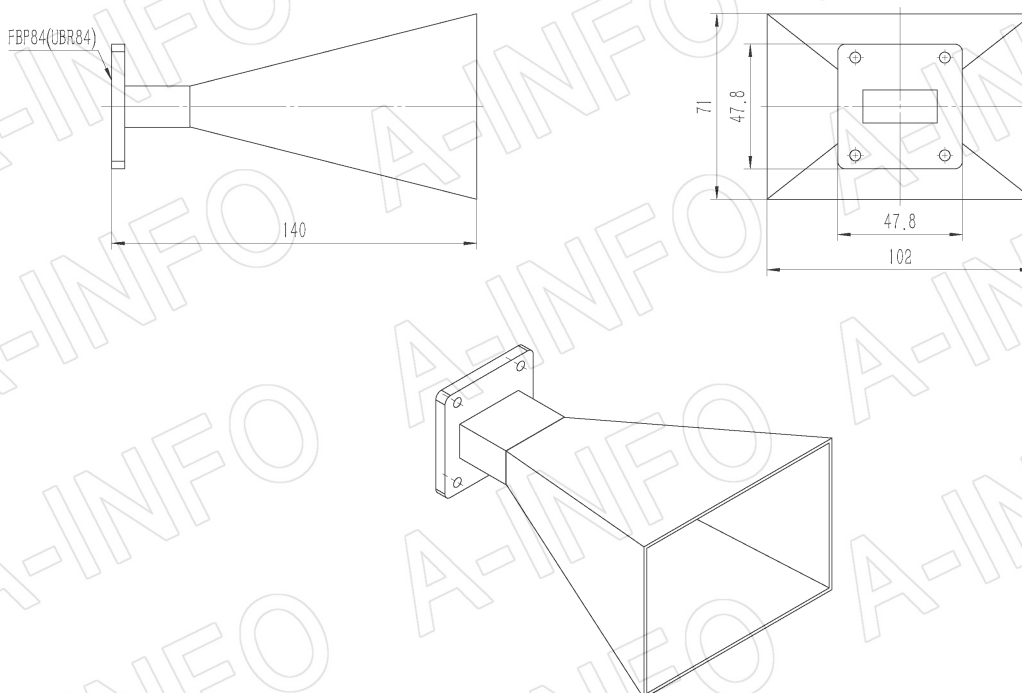
## Technical Specification



|                          |                                                                                 |
|--------------------------|---------------------------------------------------------------------------------|
| Frequency Range(GHz)     | 7.05 – 10.0                                                                     |
| Waveguide                | WR112                                                                           |
| Gain(dBi)                | 15 Typ.                                                                         |
| Polarization             | Linear                                                                          |
| 3dB Beamwidth(deg)       | E Plane: 26 Typ.                                                                |
|                          | H Plane: 24 Typ.                                                                |
| Cross Pol. Isolation(dB) | 35 Typ.                                                                         |
| VSWR                     | A Type: 1.15:1 Typ.                                                             |
|                          | C Type: 1.25:1 Typ.                                                             |
| Output                   | A Type: FBP84(UBR84)                                                            |
|                          | N-Female<br>or SMA-Female<br>C Type: or TNC-Female<br>or 7mm<br>or 3.5mm-Female |
| Material                 | Al                                                                              |
| Finish                   | Chemical Conversion Coating,<br>Gray Paint                                      |
| Size(mm)                 | A Type: 102 x 71 x 140                                                          |
|                          | C Type: 102 x 71 x 180                                                          |
| Net Weight(Kg)           | A Type: 0.13 Around                                                             |
|                          | C Type: 0.22 Around                                                             |

## Outline Drawing (Size: mm)

FBP84 Output (P/N: LB-112-15-A)



**AINFO Inc.**

China(Beijing):  
China(Chengdu):  
USA :

Tel: (+86) 10-6266-7326,  
Tel: (+86) 28-8519-2786,  
Tel: (+1) 949-639-9688,

Page 1 of 10

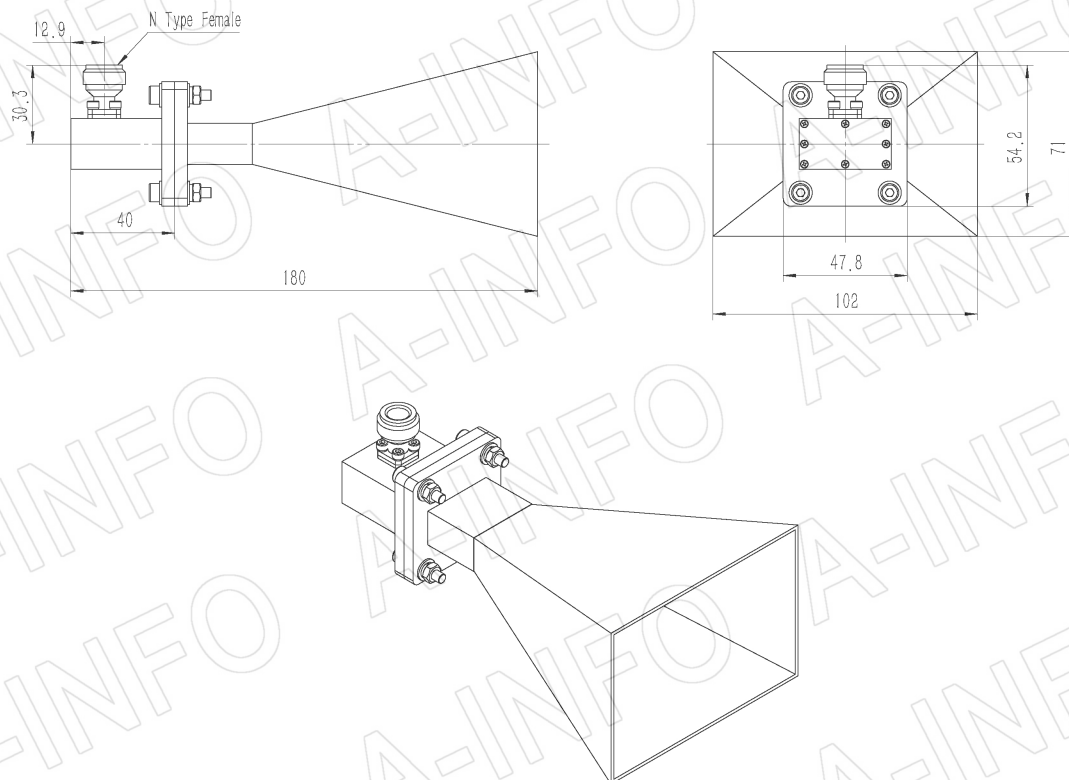
(+86) 10-6266-7327  
(+86) 28-8519-3044  
(+1) 949-639-9608

Fax: (+86) 10-6266-7379  
Fax: (+86) 28-8519-3068  
Fax: (+1) 949-639-9670

Website: [www.ainfoinc.com](http://www.ainfoinc.com)  
Email: [sales@ainfoinc.com](mailto:sales@ainfoinc.com)

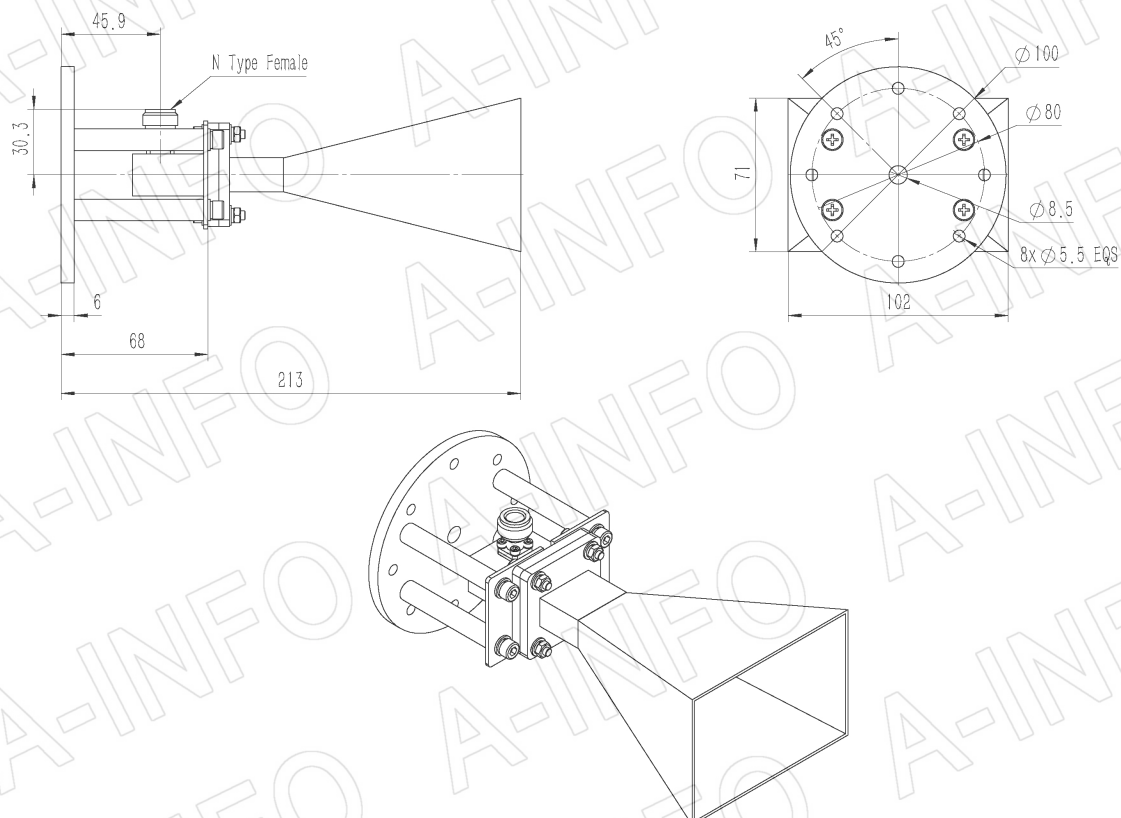
## N-Female Output (P/N: LB-112-15-C-NF)

For SMA-Female, TNC-Female, 7mm or 3.5mm-Female output outline drawing, please contact A-INFO.



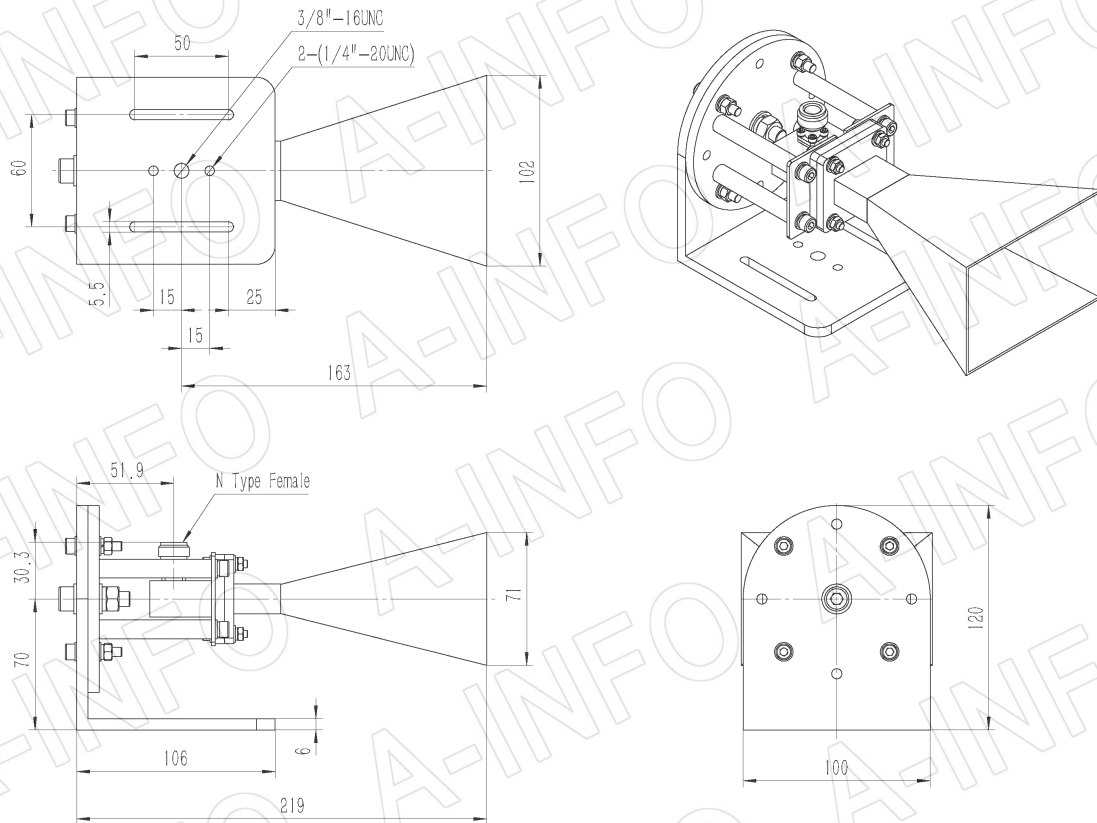
## N-Female Output with Round Mounting Bracket (Option, P/N: LB-112-10-C-MB)

For SMA-Female, TNC-Female, 7mm or 3.5mm-Female output outline drawing, please contact A-INFO.

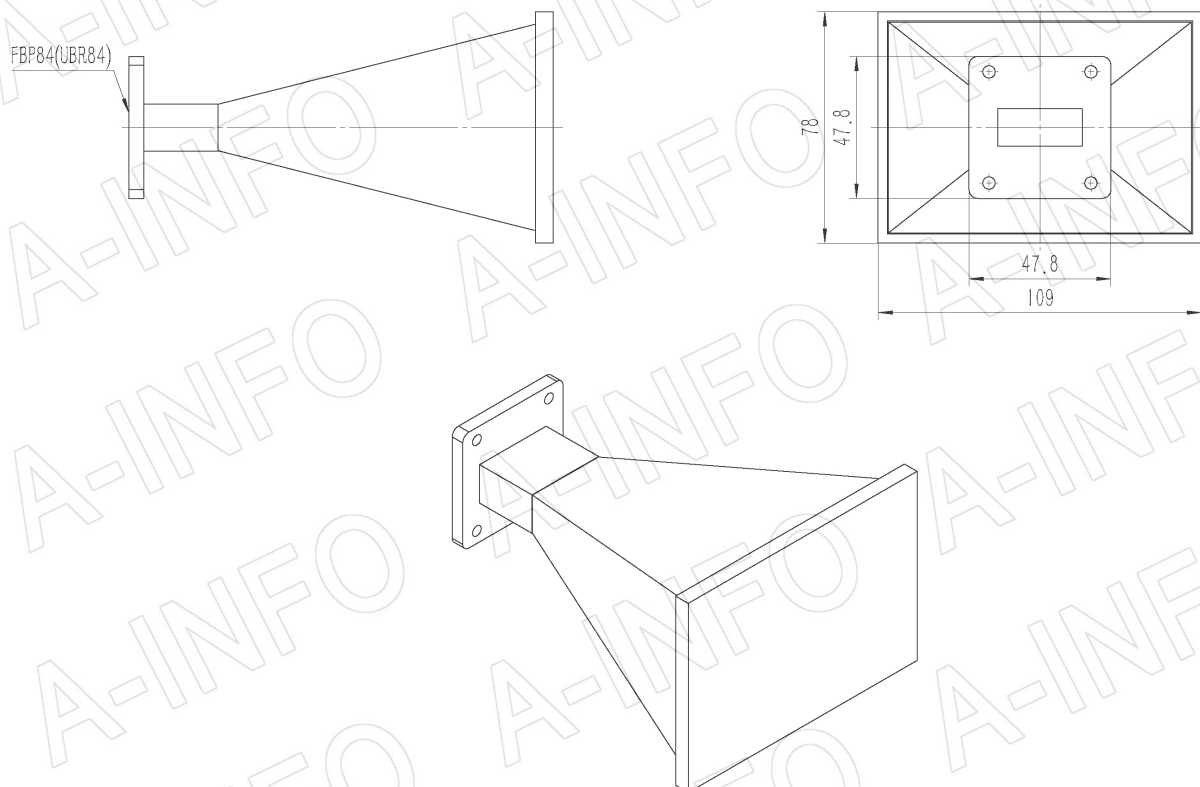


## N-Female Output with L Type Mounting Bracket (Option, P/N:LB-112-10-C-MBL)

For SMA-Female, TNC-Female, 7mm or 3.5mm-Female output outline drawing, please contact A-INFO.

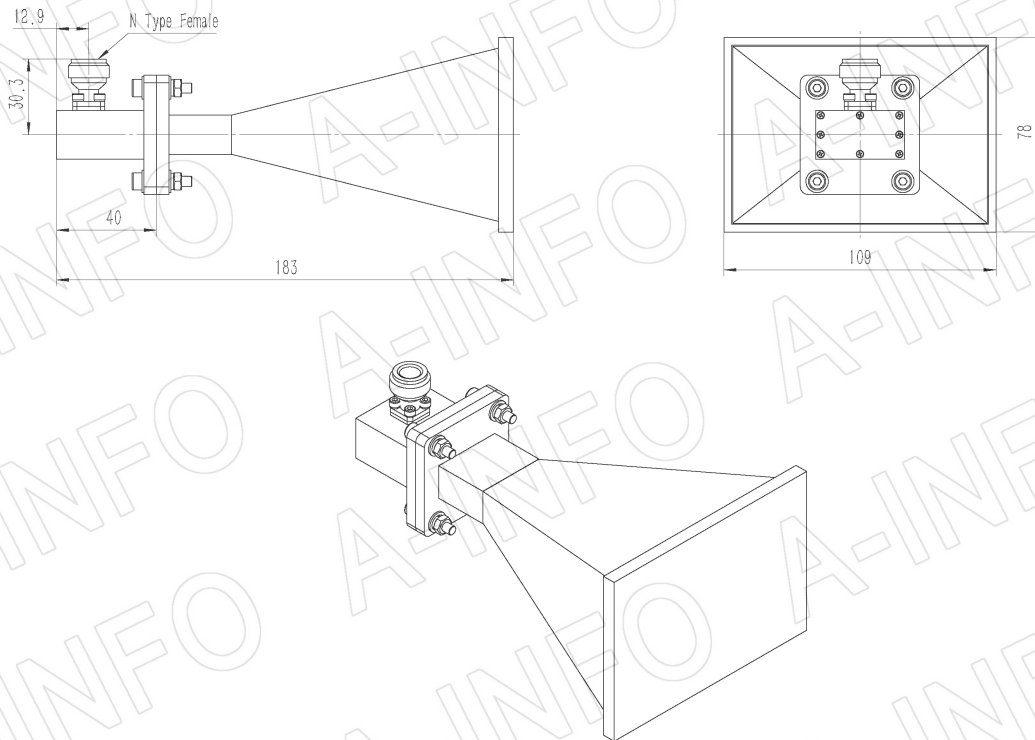


## FBP84 Output with Radome (Option, P/N: LB-112-15-ASPO, Outdoor Application)



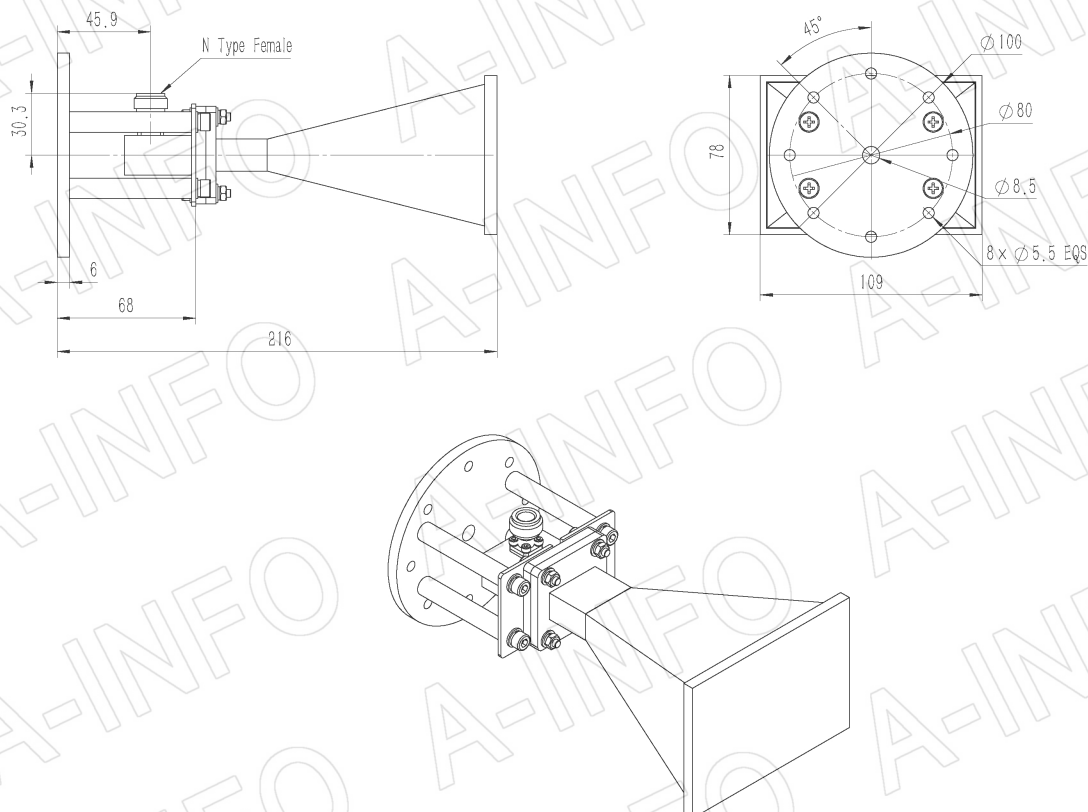
## N-Female Output with Radome (Option, P/N: LB-112-15-C-NFSPO, Outdoor Application)

For SMA-Female, TNC-Female, 7mm or 3.5mm-Female output outline drawing, please contact A-INFO.



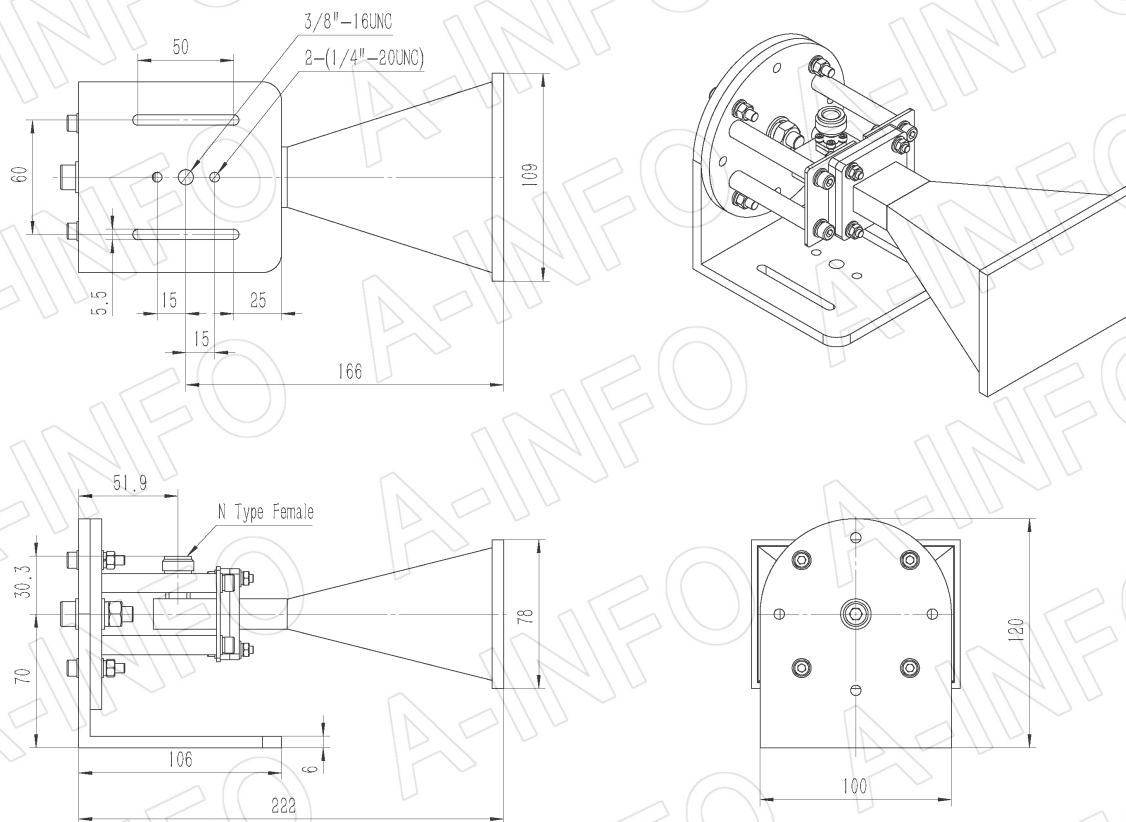
## N-Female Output with Round Mounting Bracket & Radome (Option, P/N: LB-112-10-C-MB & LB-112-15-C-NFSPO, Outdoor Application)

For SMA-Female, TNC-Female, 7mm or 3.5mm-Female output outline drawing, please contact A-INFO.

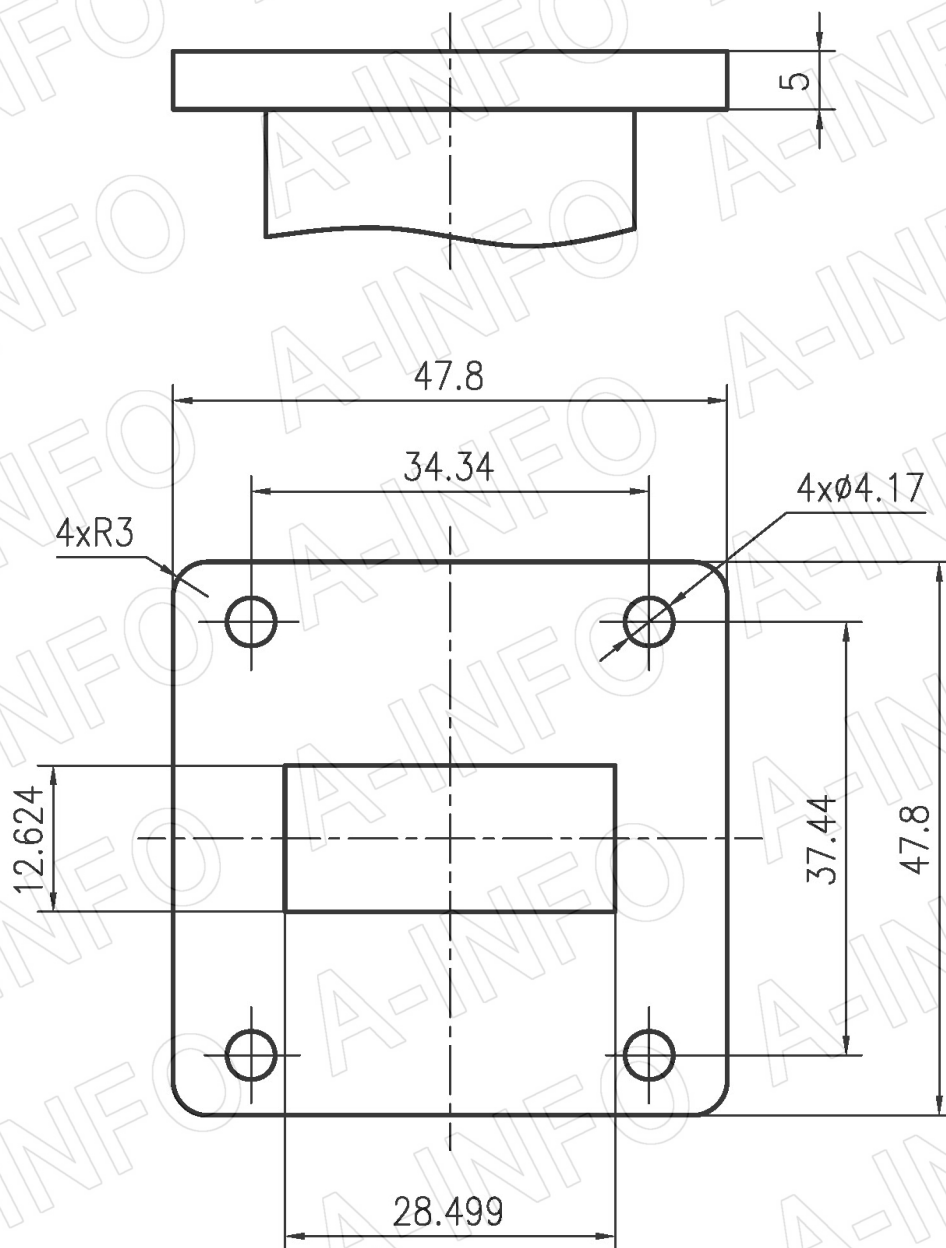


## N-Female Output with L Type Mounting Bracket & Radome (Option, P/N: LB-112-10-C-MBL & LB-112-15-C-NFSP0, Outdoor Application)

For SMA-Female, TNC-Female, 7mm or 3.5mm-Female output outline drawing, please contact A-INFO.



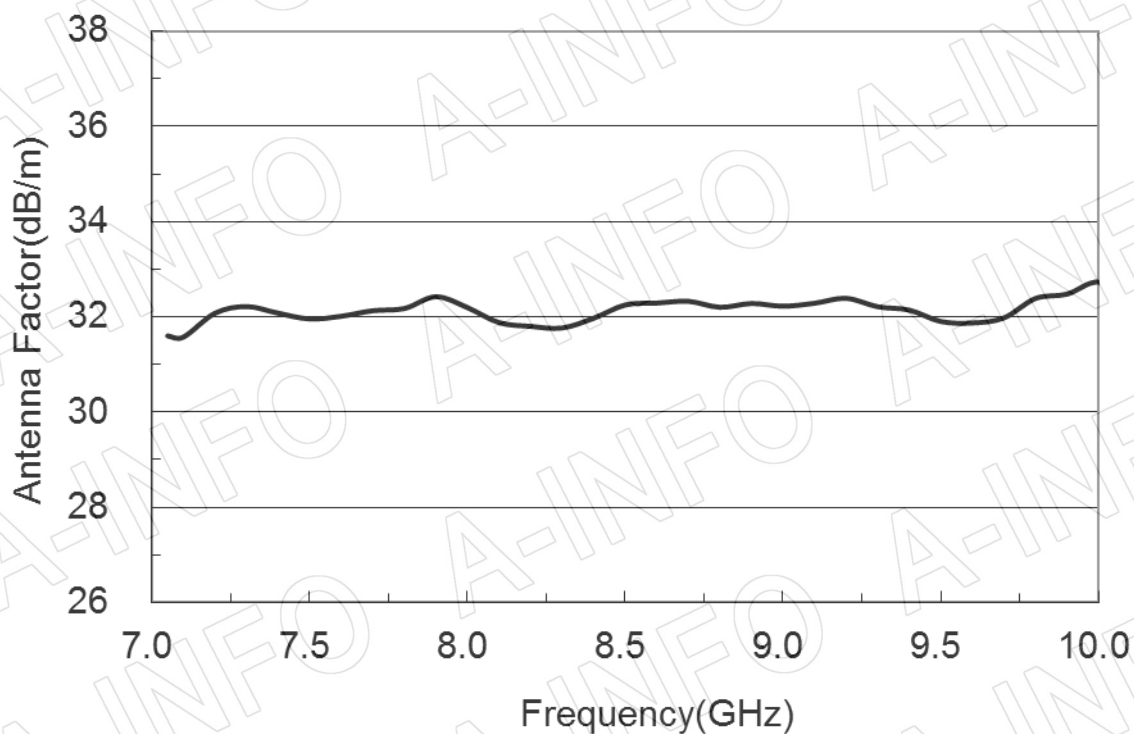
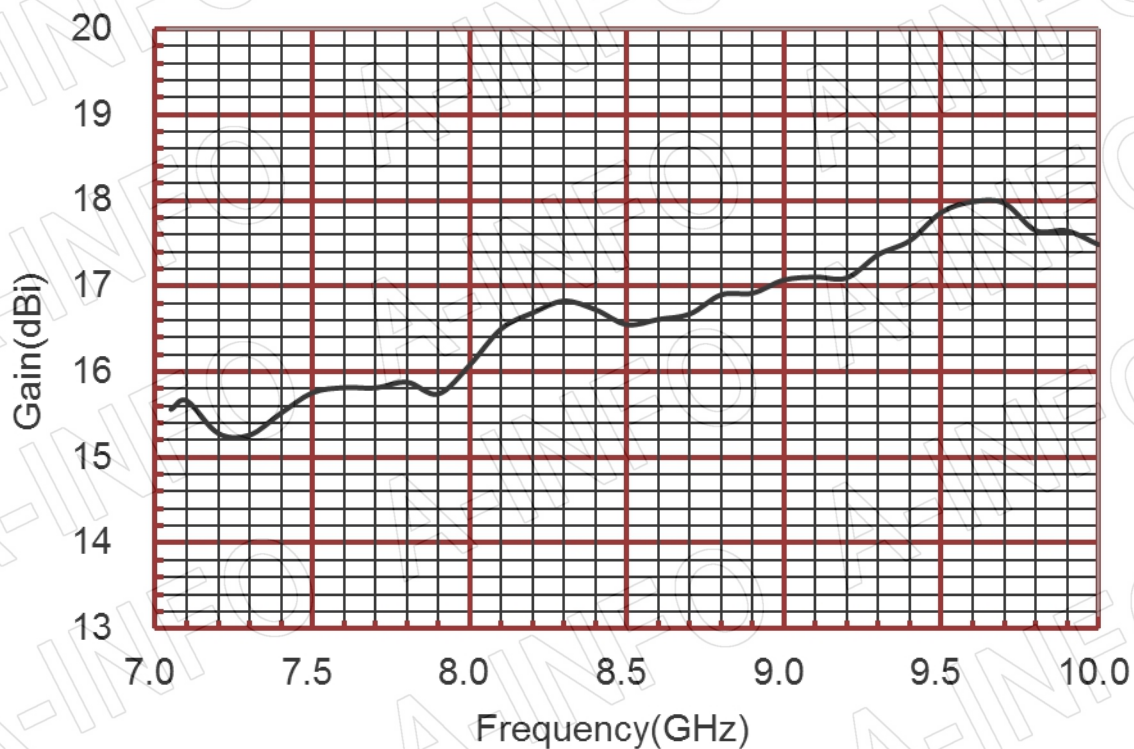
## Flange Drawing (Size: mm)



**FBP84**

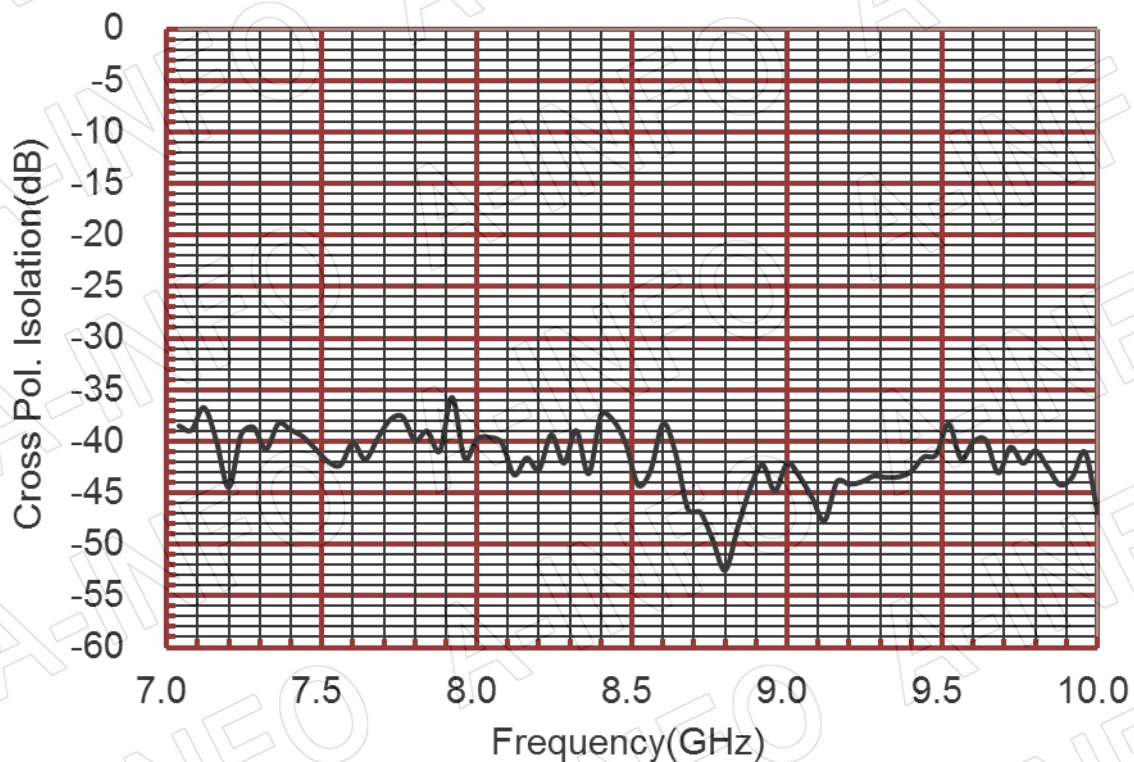
## Test Results

### 1. Gain & Antenna Factor

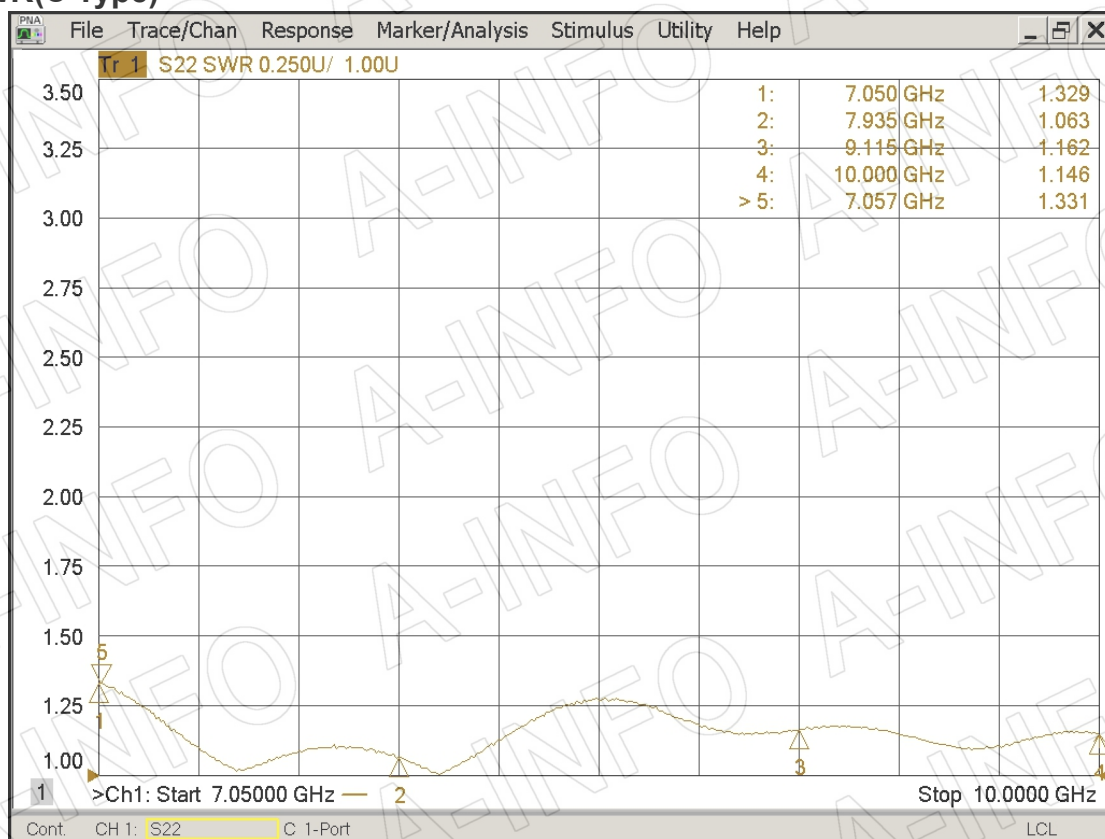


| Frequency(GHz) | Gain(dBi) | Antenna Factor(dB/m) |
|----------------|-----------|----------------------|
| 7.05           | 15.56     | 31.60                |
| 7.20           | 15.28     | 32.08                |
| 7.50           | 15.76     | 31.96                |
| 7.80           | 15.88     | 32.17                |
| 8.00           | 16.08     | 32.19                |
| 8.20           | 16.69     | 31.80                |
| 8.50           | 16.55     | 32.25                |
| 8.80           | 16.90     | 32.20                |
| 9.00           | 17.07     | 32.22                |
| 9.20           | 17.10     | 32.39                |
| 9.50           | 17.86     | 31.90                |
| 9.80           | 17.65     | 32.39                |
| 10.00          | 17.48     | 32.73                |

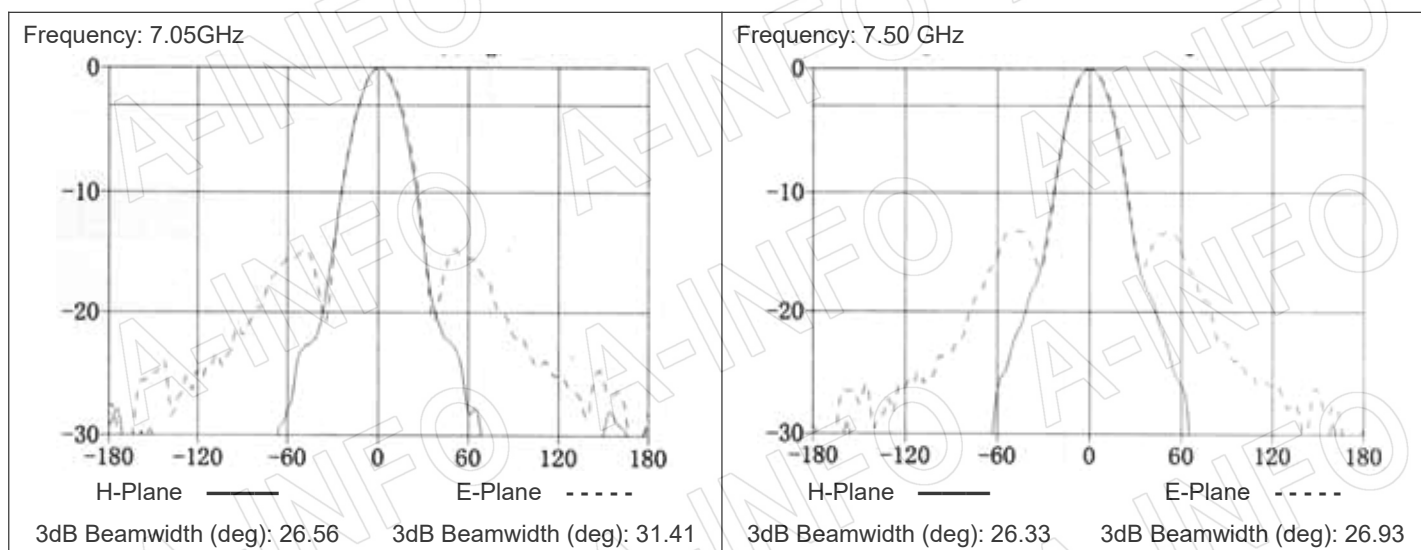
## 2. Cross Polarization Isolation



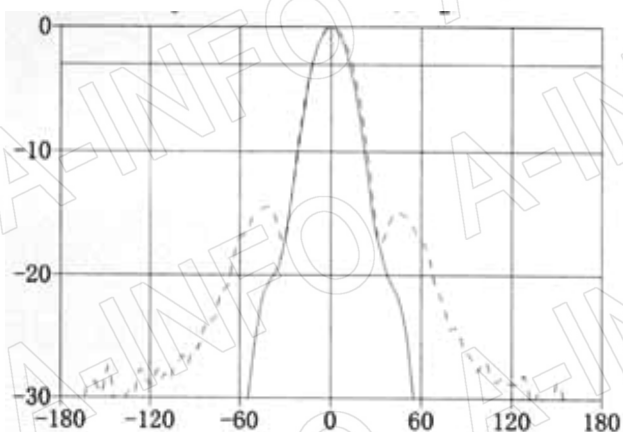
### 3. VSWR(C Type)



### 4. Pattern

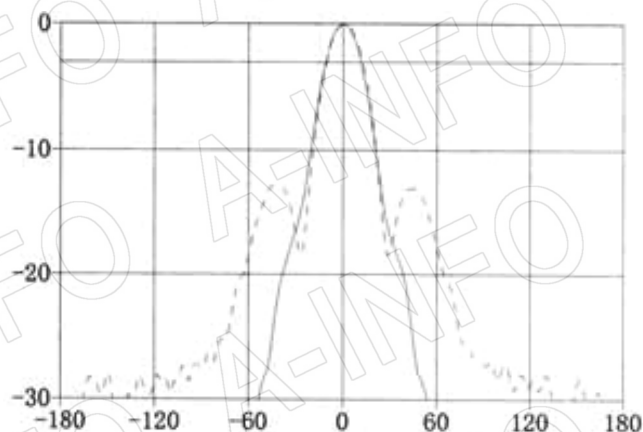


Frequency: 8.00 GHz



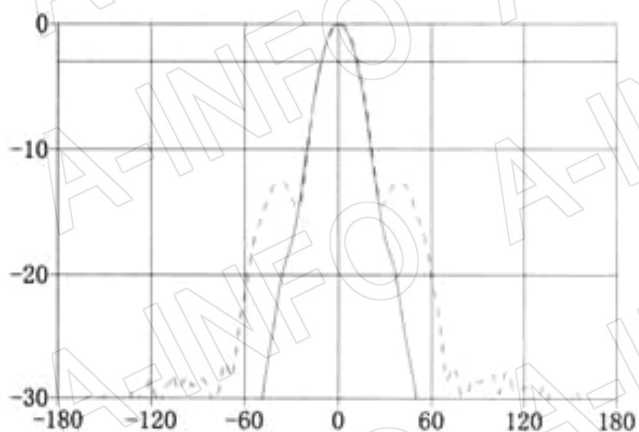
H-Plane ——— E-Plane - - - - -  
3dB Beamwidth (deg): 24.52 3dB Beamwidth (deg): 26.64

Frequency: 8.50 GHz



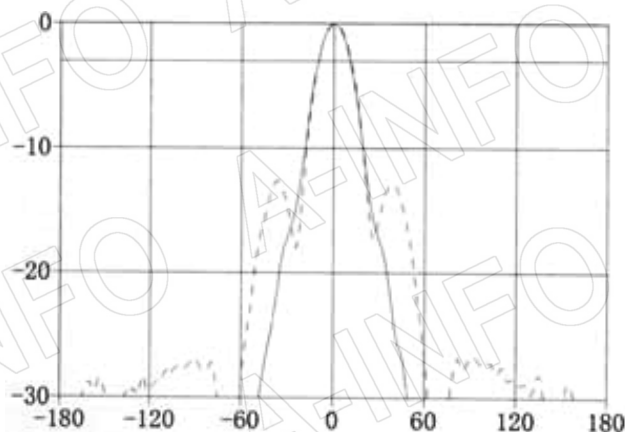
H-Plane ——— E-Plane - - - - -  
3dB Beamwidth (deg): 22.36 3dB Beamwidth (deg): 22.90

Frequency: 9.00 GHz



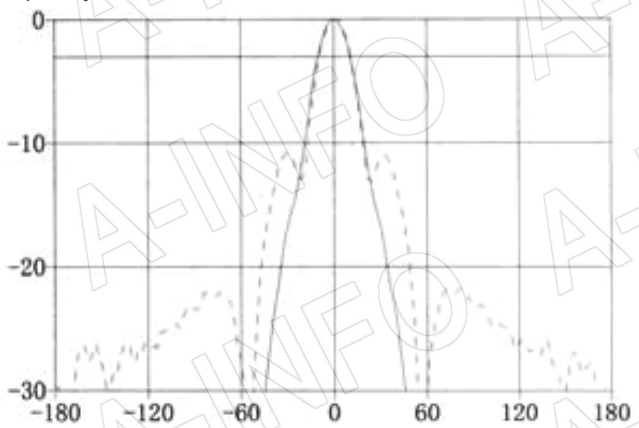
H-Plane ——— E-Plane - - - - -  
3dB Beamwidth (deg): 22.20 3dB Beamwidth (deg): 23.35

Frequency: 9.50GHz



H-Plane ——— E-Plane - - - - -  
3dB Beamwidth (deg): 20.73 3dB Beamwidth (deg): 21.37

Frequency: 10.00GHz



H-Plane ——— E-Plane - - - - -  
3dB Beamwidth (deg): 20.44 3dB Beamwidth (deg): 20.00