

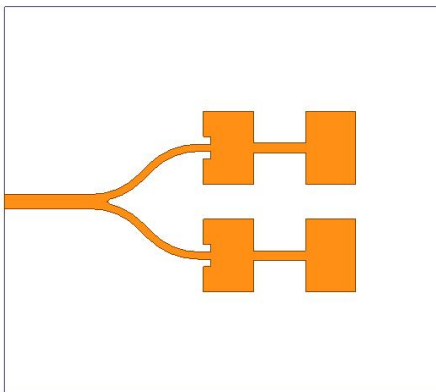
**Manufacturer:Changzhou Luo Pan Xing Analytical Tech Co, Ltd.**

Address:6th Floor, A3 Building, Technology Venture Center, 801 Changwu Middle Road,  
Changzhou, Jiangsu 213164, China

## Antenna Specification

|                                |                     |
|--------------------------------|---------------------|
| application model certified by |                     |
| frequency range                | 76-81GHz            |
| beam angle                     | 8°                  |
| ant. port input pwr (dbm)      | 3dbm                |
| tot. rad. pwr (dbm)            | 0dbm                |
| peak eirp (dbm)                | 28                  |
| directivity (dbi)              | 28                  |
| efficiency (db)                | -3                  |
| gain (dbi)                     | 28                  |
| max power xy                   | -1.2                |
| min power xy                   | -19                 |
| avg power xy                   | -3                  |
| input impedance (ohm)          | 50                  |
| polarization type              | linear polarization |
| vswr                           | <5                  |

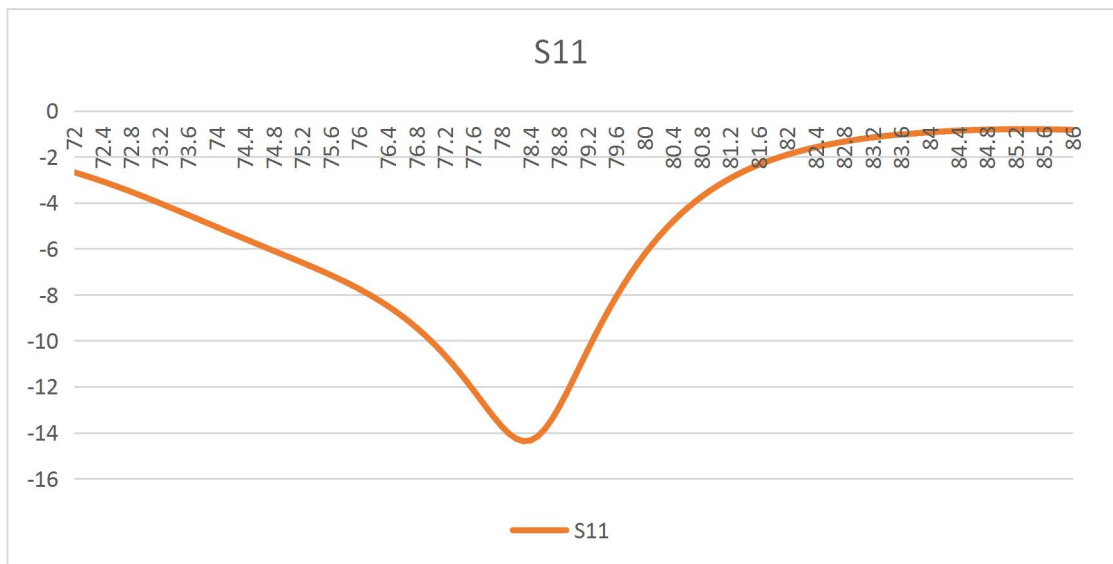
## Antenna Layout



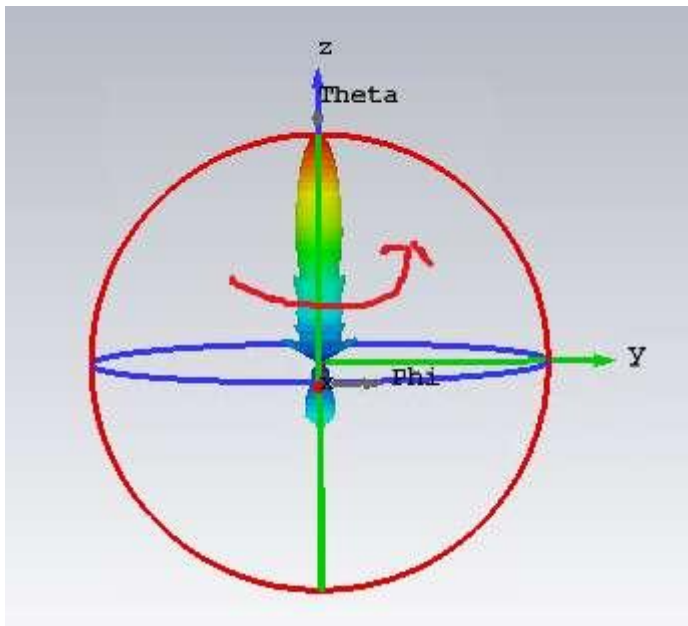
## Gain table

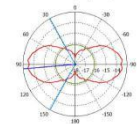
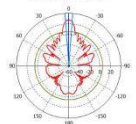
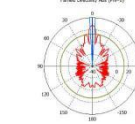
| Frequency @77GHz | xy (dbi) |     | xz (dbi) |     | yz (dbi) |     | eff. (db) |
|------------------|----------|-----|----------|-----|----------|-----|-----------|
|                  | peak     | Avg | peak     | Avg | peak     | Avg |           |
|                  | -10      | -13 | 28       | 1   | 27       | 0   |           |

## Return Loss



# 3D radiation Pattern Diagram



| Theta=90  | Phi=90   | Phi=0   |
|---|--|---|
| <p>Furthest Direction Axis (Theta=90)</p>  <p>Phi / Degree vs. dB</p> <p>Frequency = 80.000<br/>             Max lobe magnitude = -13.5 dB<br/>             Main lobe direction = 90.0 deg<br/>             Angular width (3 dB) = 171.9 deg<br/>             Side lobe level = -22.6 dB</p> | <p>Furthest Direction Axis (Phi=90)</p>  <p>Theta / Degree vs. dB</p> <p>Frequency = 70.000<br/>             Max lobe magnitude = -27.3 dB<br/>             Main lobe direction = 0.0 deg<br/>             Angular width (3 dB) = 8.4 deg<br/>             Side lobe level = -22.6 dB</p> | <p>Furthest Direction Axis (Phi=0)</p>  <p>Theta / Degree vs. dB</p> <p>Frequency = 70.000<br/>             Max lobe magnitude = -27.3 dB<br/>             Main lobe direction = 0.0 deg<br/>             Angular width (3 dB) = 8.4 deg<br/>             Side lobe level = -22.6 dB</p> |