

# N48 Directional Antenna

N48 x2

Updated on 01302024 Rev3.0

**P/N: DA-N48-20-01-BL**

## RF Specification

| Port                  | ANT1 / ANT3       |
|-----------------------|-------------------|
| Frequency Range       | 3550MHz~3700MHz   |
| Polarization          | -45deg / +45deg   |
| Horizontal / Vertical | 14°-16° / 15°-16° |
| Peak Gain             | 20.0 dBi typ.     |
| VSWR                  | 2.0 max.:1        |
| Isolation             | > 20 dB           |
| Power Handling        | 2W(cw)            |
| Impedance             | 50 Ohms           |
| Front to Back (F/B)   | > 50dB            |

## Environmental & Mechanical Characteristics

- **Temperature:** -30°C to +70°C
- **Humidity:** 95% @55°C
- **Weight:** 1.2kg
- **Antenna Housing Material:** PC
- **Dimensions:** 320(L)x320(W)x18(T)mmmm
- **Connector** N-Jack

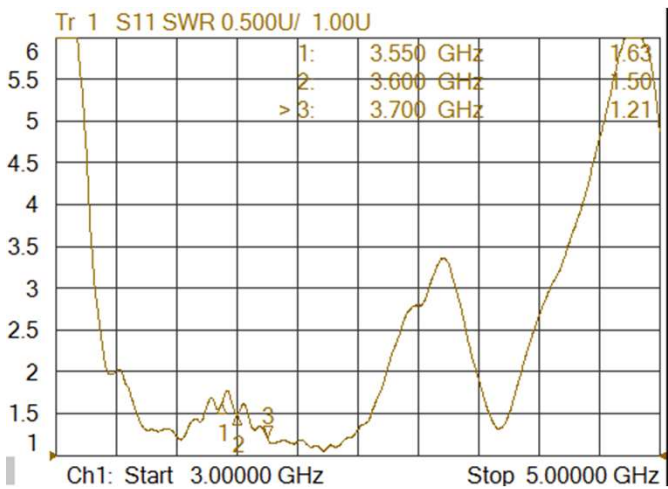
## Antenna Dimensions

320 (L) x 320(W) x 36.8(H)mm  
(12.6(L) x 12.6(W) x 3.7(H) inch )

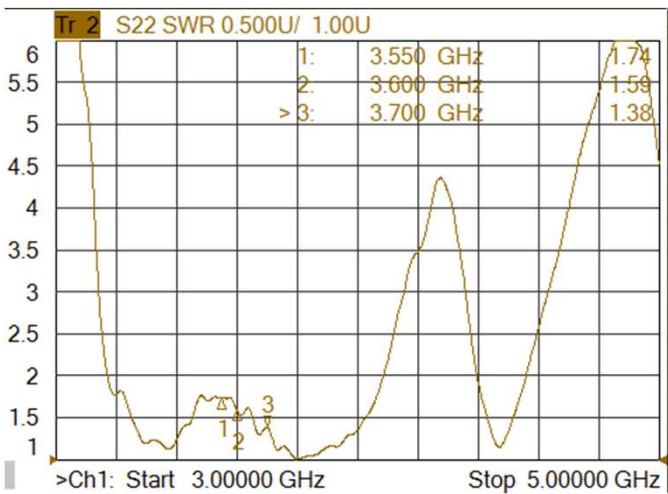
VSWR

|                |                 |
|----------------|-----------------|
| Frequency(MHz) | 3550MHz~3700MHz |
| VSWR           | 2.0 max.:1      |

ANT1 (-45deg)

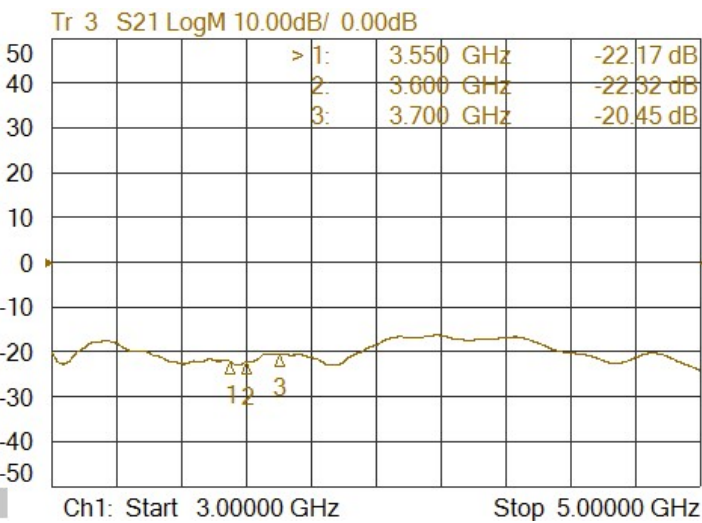


ANT3 (+45deg)



Isolation

ANT1 (-45deg) vs ANT3 (+45deg)



## Gain Table

### ANT1 (-45deg)

| Frequency<br>(MHz) | 3D         |           | HPBW    |         |
|--------------------|------------|-----------|---------|---------|
|                    | Efficiency | Peak Gain | H-plane | V-plane |
| 3550               | 61%        | 20.1      | 15      | 16      |
| 3600               | 63%        | 20.5      | 15      | 15      |
| 3650               | 65%        | 20.5      | 15      | 15      |
| 3700               | 63%        | 20.2      | 14      | 15      |

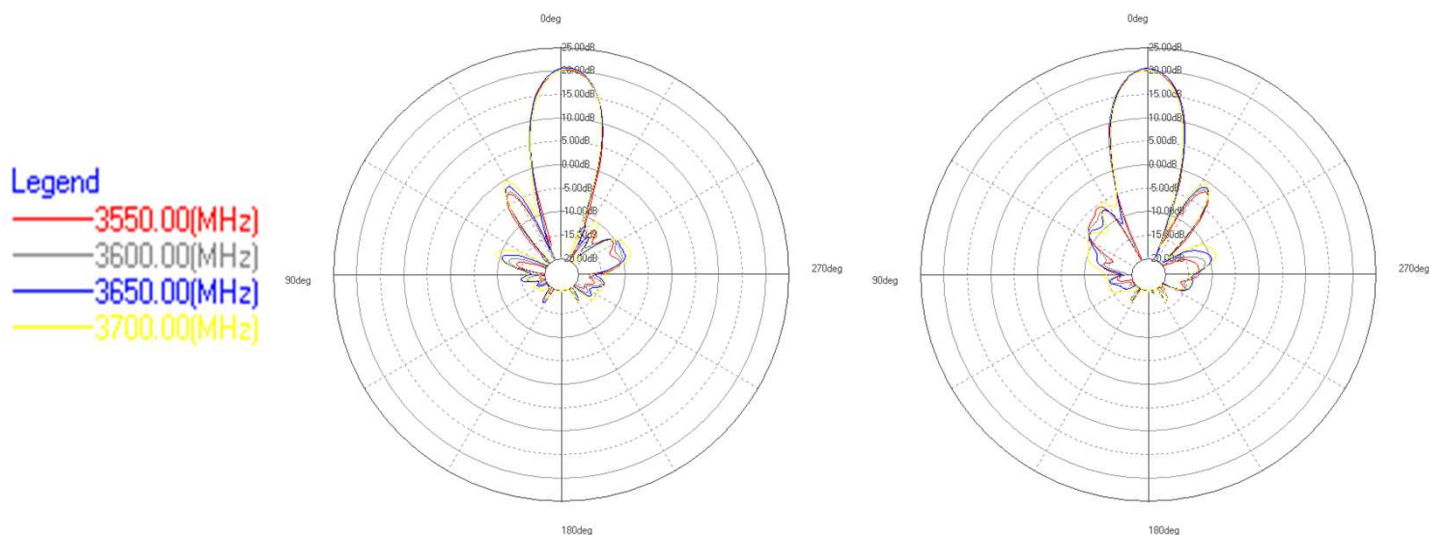
### ANT3 (+45deg)

| Frequency<br>(MHz) | 3D         |           | HPBW    |         |
|--------------------|------------|-----------|---------|---------|
|                    | Efficiency | Peak Gain | H-plane | V-plane |
| 3550               | 62%        | 19.6      | 16      | 15      |
| 3600               | 64%        | 19.9      | 15      | 15      |
| 3650               | 65%        | 20.0      | 15      | 15      |
| 3700               | 63%        | 19.7      | 15      | 14      |

## ANT1 (-45deg)

H-plane

V-plane



## ANT3 (+45deg)

H-plane

V-plane

