

## Features

- 470-698MHz frequency
- Dual-POL
- Outdoor

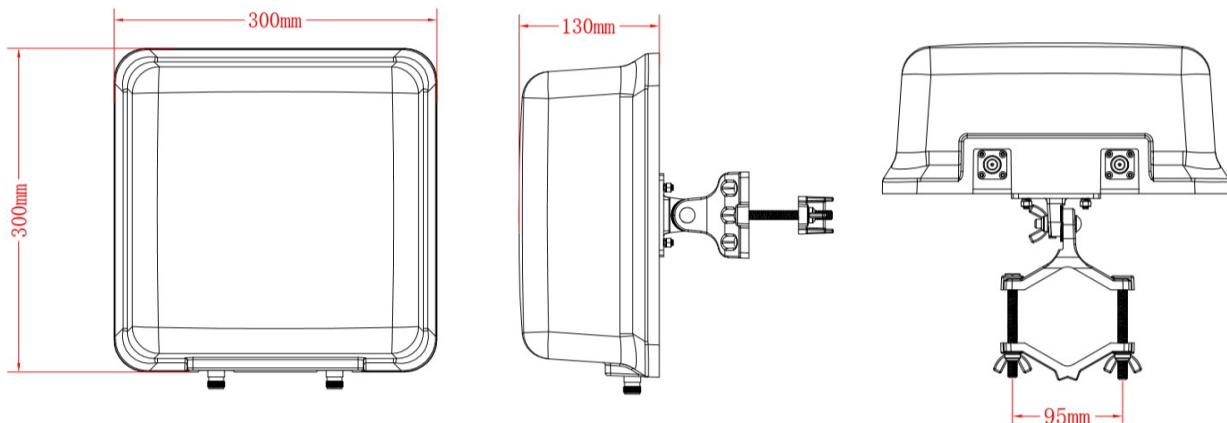
## Applications

- TV White Space (TVWS)



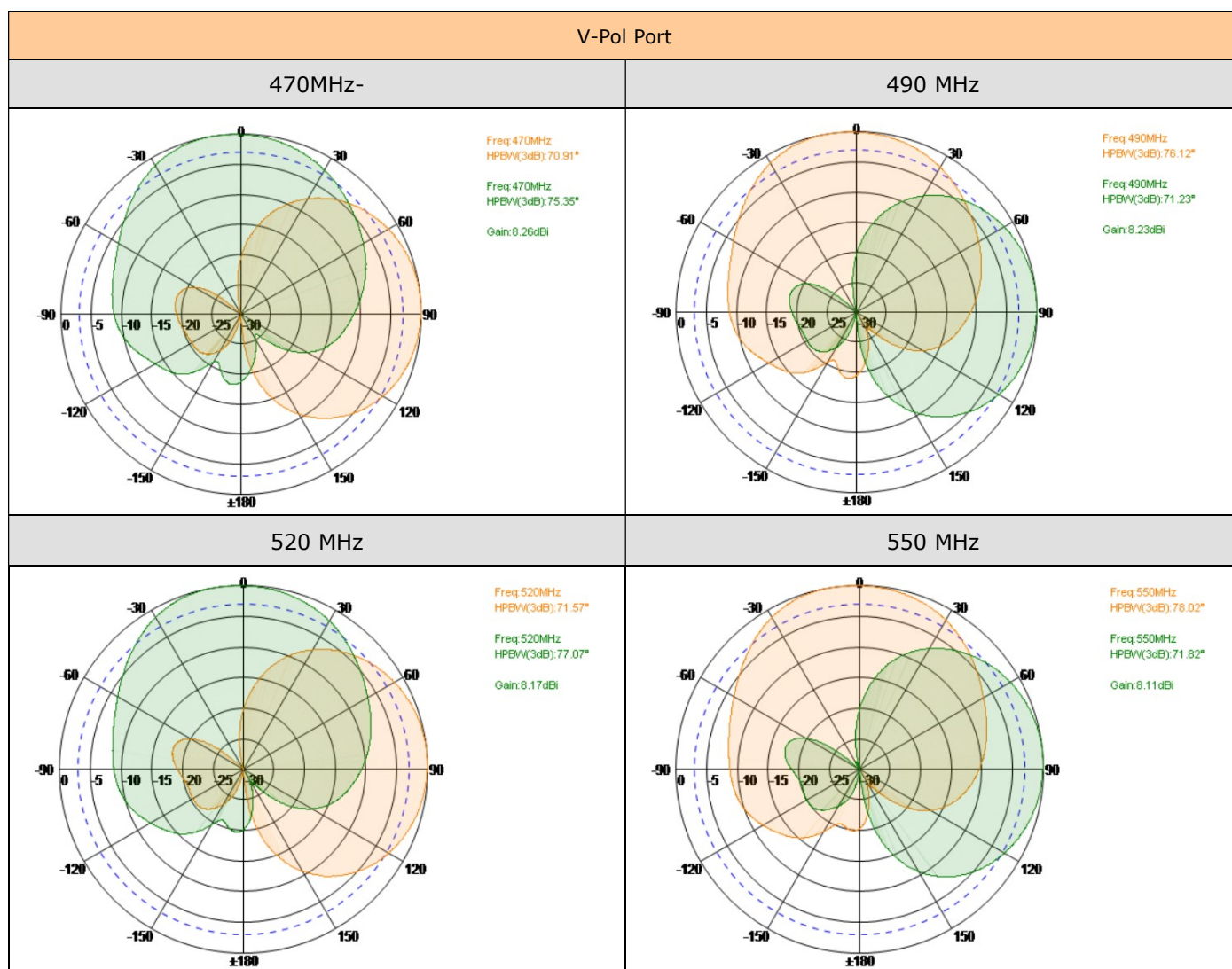
## Technical Specifications

| Electrical              |                                          |
|-------------------------|------------------------------------------|
| Model:                  | ANT0407D8Z-DP                            |
| Frequency Range(MHz)    | 470-698MHz                               |
| Gain( dBi)              | $8 \pm 0.5$ dBi                          |
| Polarization            | Dual Slant V/H                           |
| Isolation               | >25dB                                    |
| Front to Back Ratio:    | >13dB                                    |
| Horizontal Beam width   | $80 \pm 12^\circ$                        |
| Vertical Beam width     | $75 \pm 12^\circ$                        |
| VSWR                    | <2                                       |
| Maximum Power Per Port  | 50W                                      |
| Impedance               | 50Ω                                      |
| Lighting protection     | DC Ground                                |
| Mechanical              |                                          |
| Connector               | 2 x N Female                             |
| Height/width/depth      | 300x300x130mm                            |
| Antenna Weight          | 2kg                                      |
| Radome color            | white                                    |
| Radome material         | UV Protection ABS                        |
| Operational Temperature | -40°C to +70°C (-32°F to +158°F)         |
| Humidity                | ETS 300 019-1-4, EN 302 085(ANNEX A.1.1) |



**Freq. Gain.Beam Data**

| Freq.   | V-Pol Port |        |        | H-Pol Port |        |        |
|---------|------------|--------|--------|------------|--------|--------|
|         | Gain       | E      | H      | Gain       | E      | H      |
| 470MHz  | 8.26dBi    | 70.91° | 75.35° | 8.15dBi    | 90.01° | 64.68° |
| 490 MHz | 8.23dBi    | 71.23° | 76.12° | 8.13dBi    | 89.69° | 64.60° |
| 520 MHz | 8.17dBi    | 71.57° | 77.07° | 8.10dBi    | 89.88° | 64.59° |
| 550 MHz | 8.11dBi    | 71.82° | 78.02° | 8.07dBi    | 89.73° | 64.66° |
| 580 MHz | 8.05dBi    | 71.05° | 78.51° | 8.04dBi    | 89.47° | 65.09° |
| 600 MHz | 8.03dBi    | 69.71° | 78.61° | 8.05dBi    | 88.90° | 65.12° |
| 650 MHz | 8.08dBi    | 67.72° | 77.34° | 8.15dBi    | 84.87° | 64.96° |
| 680 MHz | 8.16dBi    | 67.88° | 75.43° | 8.23dBi    | 81.18° | 65.03° |
| 700 MHz | 8.22dBi    | 68.32° | 74.95° | 8.28dBi    | 79.12° | 65.06° |

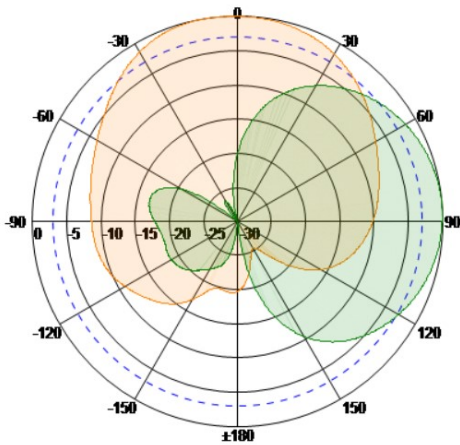
**Freq. Gain.Beam PIC**

# 470-700MHz TVWS Directional Antenna

ANT0407D8Z-DP

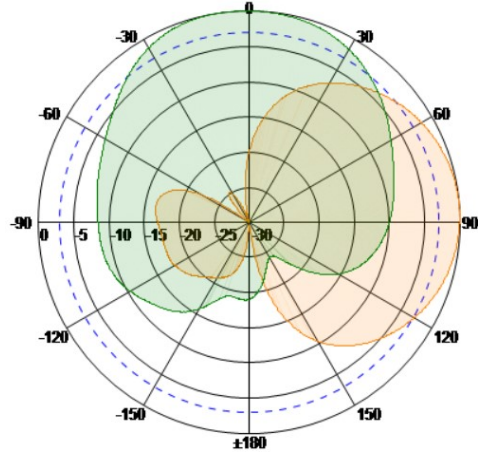


580 MHz



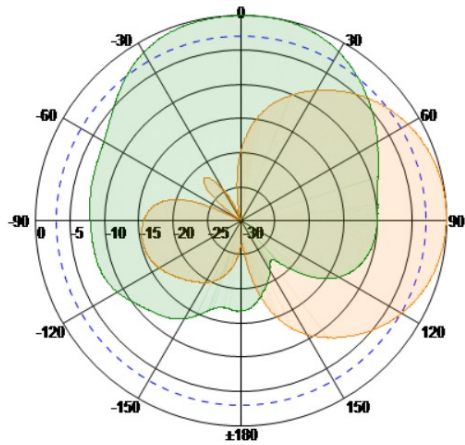
Freq:580MHz  
HPBW(3dB):78.51°  
Freq:580MHz  
HPBW(3dB):71.05°  
Gain:8.05dBi

600 MHz



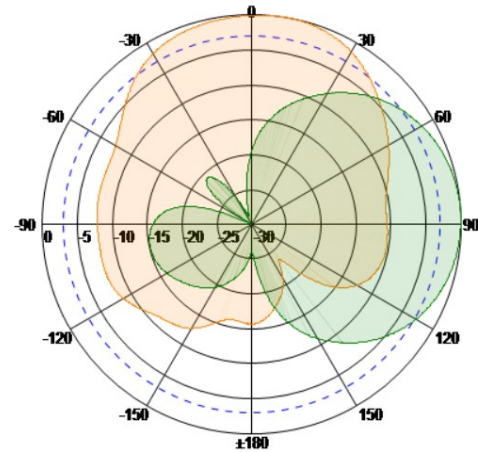
Freq:600MHz  
HPBW(3dB):69.71°  
Freq:600MHz  
HPBW(3dB):78.61°  
Gain:8.03dBi

650 MHz



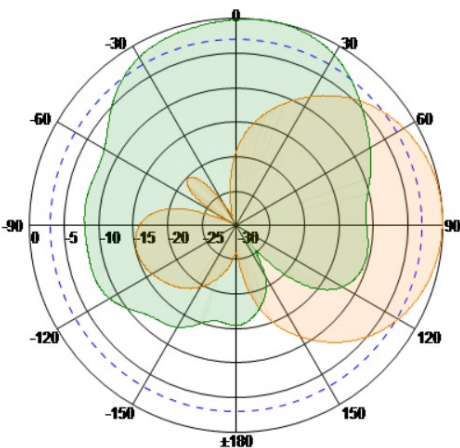
Freq:650MHz  
HPBW(3dB):67.72°  
Freq:650MHz  
HPBW(3dB):77.34°  
Gain:8.08dBi

680 MHz



Freq:680MHz  
HPBW(3dB):75.43°  
Freq:680MHz  
HPBW(3dB):67.88°  
Gain:8.16dBi

700 MHz



Freq:700MHz  
HPBW(3dB):68.32°  
Freq:700MHz  
HPBW(3dB):74.95°  
Gain:8.22dBi

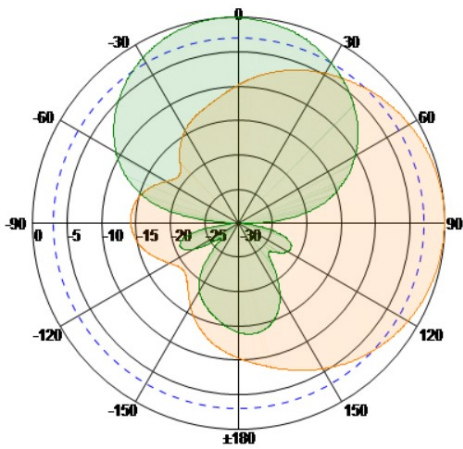
# 470-700MHz TVWS Directional Antenna

ANT0407D8Z-DP



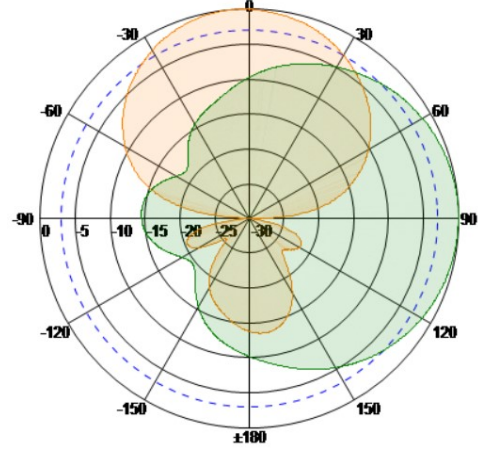
## H-Pol Port

470MHz-



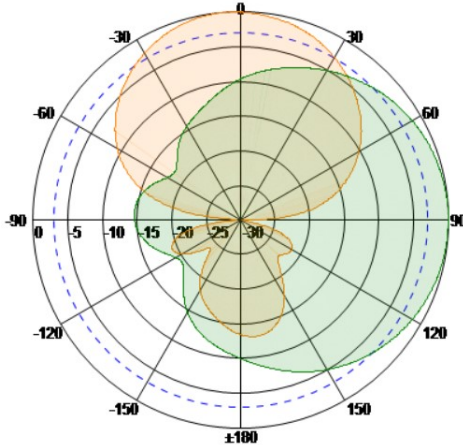
Freq:470MHz  
HPBW(3dB):90.01°  
Freq:470MHz  
HPBW(3dB):64.68°  
Gain:8.15dBi

490MHz-



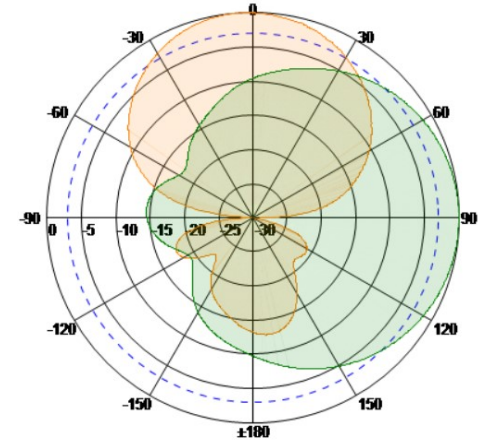
Freq:490MHz  
HPBW(3dB):64.60°  
Freq:490MHz  
HPBW(3dB):69.69°  
Gain:8.13dBi

520 MHz



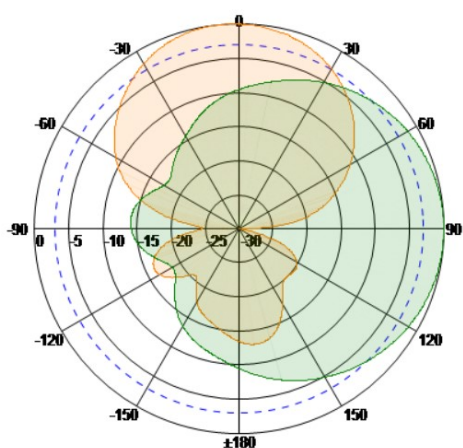
Freq:520MHz  
HPBW(3dB):64.59°  
Freq:520MHz  
HPBW(3dB):69.86°  
Gain:8.10dBi

550 MHz



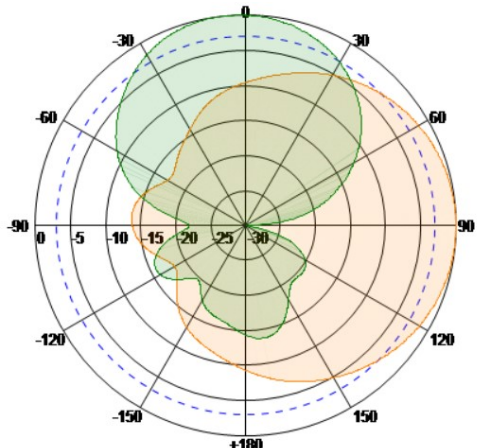
Freq:550MHz  
HPBW(3dB):64.66°  
Freq:550MHz  
HPBW(3dB):69.73°  
Gain:8.07dBi

580 MHz



Freq:580MHz  
HPBW(3dB):65.09°  
Freq:580MHz  
HPBW(3dB):69.47°  
Gain:8.04dBi

600 MHz



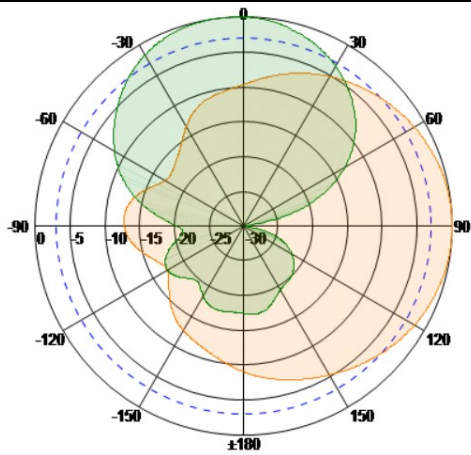
Freq:600MHz  
HPBW(3dB):65.90°  
Freq:600MHz  
HPBW(3dB):65.12°  
Gain:8.05dBi

# 470-700MHz TVWS Directional Antenna

ANT0407D8Z-DP

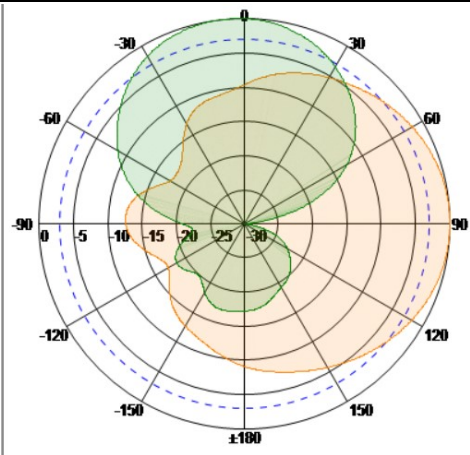


650 MHz



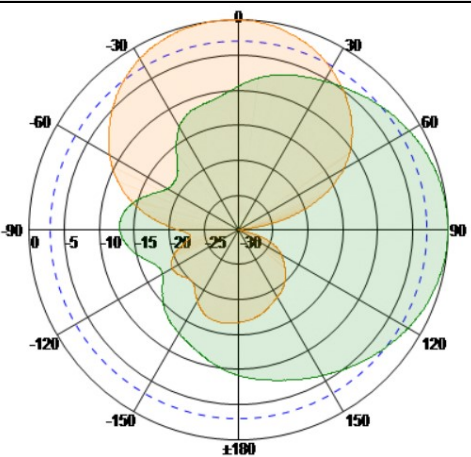
Freq:650MHz  
HPBW(3dB):84.87°  
Freq:650MHz  
HPBW(3dB):64.96°  
Gain:8.15dBi

680 MHz



Freq:680MHz  
HPBW(3dB):81.18°  
Freq:680MHz  
HPBW(3dB):65.03°  
Gain:8.23dBi

700 MHz



Freq:700MHz  
HPBW(3dB):65.06°  
Freq:700MHz  
HPBW(3dB):79.12°  
Gain:8.28dBi