Cellular Antennas
Panel Antennas

# P042001830R17F7

**Low Band 4-Port Dual Beam Antenna**

**2 x 824~896MHz**

**35° Horizontal Beam Width**

| **Connector** | | R1 R2 Connector 1-4 |
|---|---|---|
| Frequency Band | MHz | 824-896 |
| Polarization | | ±45° |
| Gain at mid Tilt | dBi | 17.8 |
| Gain over all tils | dBi | 17.8±0.5 |
| VSWR | | 1.5 |
| Return Loss | dB | 14 |
| Cross Polar Isolation | dB | 25 |
| Port to Port Isolation (Beam Isolation) | dB | 15(R1/R2) |
| Passive Intermodulation,2 x 43dBm Carrier | dBc | -150 |
| Max. Effective Power per Port | W | 500 |
| Impedance | Ω | 50 |
| **Horizontal Pattern** | | |
| Azimuth Beamwidth | ° | 35 |
| Azimuth Beamwidth Tolerance | ° | ±2 |
| Azimuth Beam direction | ° | 28±2 |
| Azimuth Sidelobe Suppression | dB | ≥18 |
| Beam crossover level at Boresight | dB | ≤-12 |
| Front to Back Ratio, Copolar, ±30° | dB | ≥30 |
| Cross Polar Discrimination at Boresight | dB | ≥20 |
| Cross Polar Discrimination over Sector | dB | ≥8 |
| Sector Power Ratio | % | ≤7 |
| **Vertical Pattern** | | |
| Elevation Beamwidth | ° | 10.2 |
| Elevation Beamwidth Tolerance | | ±0.7 |
| Electrical Downtilt continuously adjustable | ° | 0-10 |
| First Upper Sidelobe Suppression | dB | ≥15 |

Values based on NGMN-P-BASTA requirement

| | | | |
|---|---|---|---|
| Connector | Quantity | EA | 4 x 7-16 DIN Female |
| | Location | | Bottom |
| Dimensions | Antenna | mm | 565/170/1990 |
| Weight | Antenna | Kg | 29 |
| | Clamp | Kg | 2.8 |
| | Packing | Kg | 37 |
| Radome | Material | | FRP |
| | Color | | Gray |
| Wind Load (at 150km/h wind velocity) | Frontal | N | 1470.9 |
| | Lateral | N | 442.6 |
| | Rear | N | 1470.9 |
| Max. Wind Velocity | | Km/h | 216 |
| Operational Temperature | | °C | -40~70 |
| Adjustment Mechanism | | | Internal RET (2CH) |
| Mast Diameter Supported | | mm | 40~115 |

R1/R2