# SS5428D

## 5GHz 28dBi Dual Pol Solid Parabolic Antenna

Datasheet: 121207

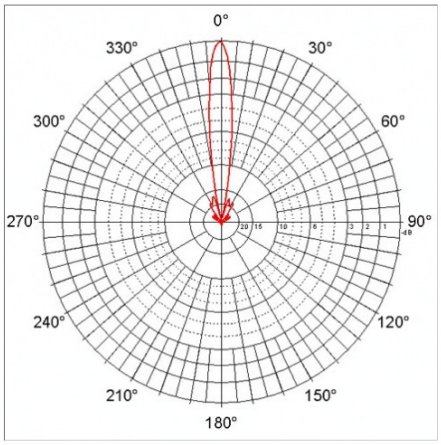
## Main Features:

- High-performance, professional 650mm 28dBi 5GHz dual polarization dish for critical applications
- High port isolation (typically >50dB)
- Vertical and horizontal dual polarization
- Fully enclosed radome
- Full vernier adjustable mount
- Excellent stability in high wind environments

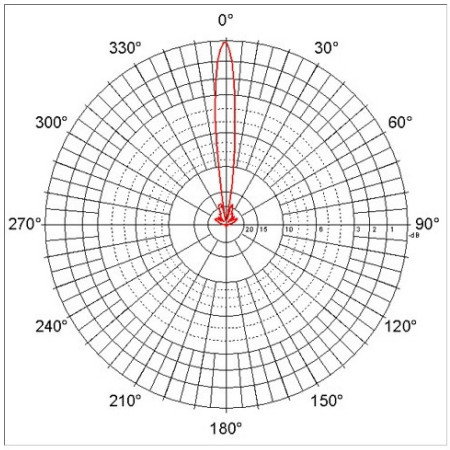
## Electrical Specifications:

| | |
|---|---|
| Frequency | 5450 - 5900MHz |
| Gain | 28.0dBi (5450MHz)<br>29.2dBi (5900MHz) |
| Vertical beam-width | 5.8° |
| Horizontal beam-width | 5.8° |
| Return loss | >-14dB |
| Front-to-back ratio | >-43dB |
| Isolation between ports | -45dB (minimum)<br>-53dB (typical) |
| Cross polar discrimination | -30dB |
| Impedance | 50 Ohms |
| Maximum power | 100 Watts |

Plane E




Plane H




## Mechanical Specifications:

| | |
|---|---|
| Connectors | N-Type Female |
| Reflector aperture | 650mm diameter |
| Coarse elevation range | 10° |
| Vernier elevation adjust | +/-20° |
| Vernier azimuth adjust | +/-20° |
| Net weight | 15kg |
| Mast diameter | 40-120mm OD |
| Operating temperature | -45°C to 60°C |
| Wind operational speed | 180kph |
| Wind survival speed | 250kph |
| Shipping dimensions | 790x790x515mm, 9.2kg |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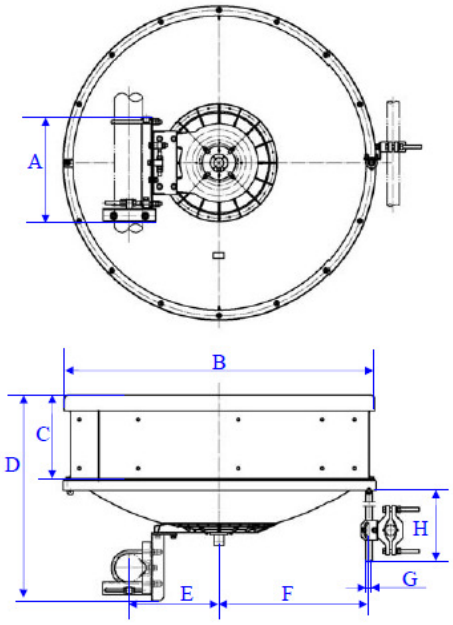
# SS5831

## 5.8GHz 31dBi Solid Parabolic Antenna

## Dimensions



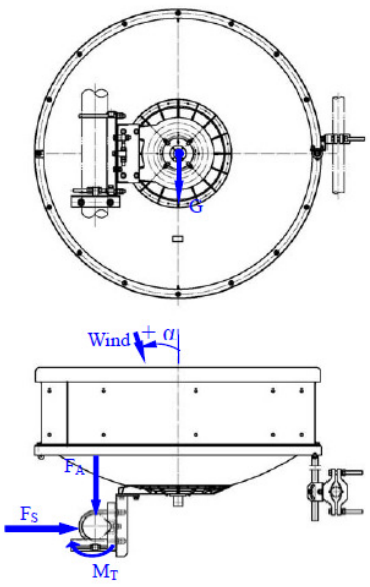

| Antenna Dimensions, mm | |
|---|---|
| A | (329) |
| B | (ϕ1271) |
| C | (350) |
| D | (986) |
| E | (371) |
| F | (612) |
| G | (ϕ26.8) |
| H | (1500) |

NOTE: The dimension with"()" is referenced dimension.

## Wind Loading:

The axial, side and twisting moment forces stated are maximum loads applied to the tower by the antenna at a survival wind speed of 250km/h (70m/s). They are, in every case, the result of wind from the most critical direction for each parameter. The individual maximums may not occur simultaneously. All forces are referenced to the antenna mounting pipe.

| | |
|---|---|
| Axial Force ($F_A$ Max.), N | 4900 |
| Side Force ($F_S$ Max.), N | 2410 |
| Twisting Moment ($M_T$ Max.), N•m | 1860 |
| Angle α for $M_T$ Max, Degree | -20 |



# φ1.2m 5.725-5.85GHz RADIATION PATTERN