

Sencity Special Communication Antenna 91121975

Description

6-Port Panel Antenna
 Frequency Range 698-960 / 1695-2690 MHz
 Dual Polarization (X-Pol)
 Half-power Beam Width 65°
 Adjust. Electrical Downtilt 2°-16° / 2.5°-12°
 Gain 13.5-18.1 dBi



Product Configuration

Technical Data

Electrical Data

| | Band 1 | Band 2 | Band 3 | Band 4 |
|--------------------------|-----------|-----------|-----------|-----------|
| Frequency (MHz) | 698 - 806 | 790 - 862 | 824 - 894 | 880 - 960 |
| VSWR | 1.5 | 1.5 | 1.5 | 1.5 |
| Impedance (Ohm) | 50 | 50 | 50 | 50 |
| Gain (dBi) | 13.5 | 14 | 14.2 | 14.5 |
| 3dB beamwidth (h) (°) | 72 | 70 | 68 | 67 |
| 3dB beamwidth (v) (°) | 17.4 | 16.2 | 15.7 | 14.9 |
| Composite power max (W) | 400 | 400 | 400 | 400 |
| Ambient temperature (°C) | 50 | 50 | 50 | 50 |
| Front to back ratio (dB) | 22 | 24 | 24 | 25 |
| Co/Crosspolar ratio (dB) | 23 | 23 | 24 | 22 |
| Sidelobes (v) | 15 | 16 | 16 | 19 |
| Port Isolation (dB) | 30 | 30 | 30 | 30 |

| | Band 5 | Band 6 | Band 7 | Band 8 |
|--------------------------|-------------|-------------|-------------|-------------|
| Frequency (MHz) | 1695 - 1880 | 1850 - 2180 | 2300 - 2400 | 2500 - 2690 |
| VSWR | 1.5 | 1.5 | 1.5 | 1.5 |
| Impedance (Ohm) | 50 | 50 | 50 | 50 |
| Gain (dBi) | 17.3 | 17.5 | 17.2 | 17.6 |
| 3dB beamwidth (h) (°) | 62 | 61 | 66 | 64 |
| 3dB beamwidth (v) (°) | 6.7 | 6.3 | 5.3 | 4.8 |
| Composite power max (W) | 200 | 200 | 200 | 200 |
| Ambient temperature (°C) | 50 | 50 | 50 | 50 |
| Front to back ratio (dB) | 24 | 26 | 24 | 24 |
| Co/Crosspolar ratio (dB) | 16 | 20 | 18 | 15 |
| Sidelobes (v) | 17 | 17 | 19 | 15 |
| Port Isolation (dB) | 30 | 30 | 30 | 30 |

Ports

| | Port 1 | Port 2 | Port 3 | Port 4 | Port 5 | Port 6 |
|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|
| Connector | 7/16, jack (female) | 7/16, jack (female) | 7/16, jack (female) | 7/16, jack (female) | 7/16, jack (female) | 7/16, jack (female) |
| Polarization | -45° slant | +45° slant | -45° slant | +45° slant | -45° slant | +45° slant |
| DC grounded | Yes | Yes | Yes | Yes | Yes | Yes |

Sencity Special Communication Antenna 91121975

Connections

| | Band 1 | Band 2 | Band 3 | Band 4 | Band 5 | Band 6 | Band 7 | Band 8 |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Port 1 | X | X | X | X | | | | |
| Port 2 | X | X | X | X | | | | |
| Port 3 | | | | | X | X | X | X |
| Port 4 | | | | | X | X | X | X |
| Port 5 | | | | | X | X | X | X |
| Port 6 | | | | | X | X | X | X |

General Data

IMD level -150 dBc at carrier power 2x 43dBm

Max. power for the antenna 900W

Mechanical Data

Dimensions (mm) 1402 x 377 x 169 (Height x Width x Depth)
 Weight (kg) 25
 Windload frontal: 450 N at km/h , Wind speed survival: 240 km/h

Packing size (mm): 1602x397x212

Connector position: Bottom

Scope of Supply:

738546 Clamp 42-115mm

FlexRET

Environmental Data

Environmental conditions outdoor
 2011/65/EU (RoHS - including compliant
 2015/863 and 2017/2102)
 WEEE 2012/19/EU no special marking needed
 REACH 1907/2006/EC compliant

Grounding:

The metal parts of the antenna including the mounting kit and the inner conductors are DC grounded.

Material:

Radome: fiberglass, light grey

Reflector screen: Aluminum.

All screws and nuts: Stainless steel or hot-dip galvanized steel.

Material Data

Radome colour grey
 Radome material Glass Reinforced Plastic (GRP)
 Back plate/base plate material Aluminium

Related Products

85010002 Clamp 110-220mm

85010003 Clamp 210-380mm

85010008 Downtilt Kit

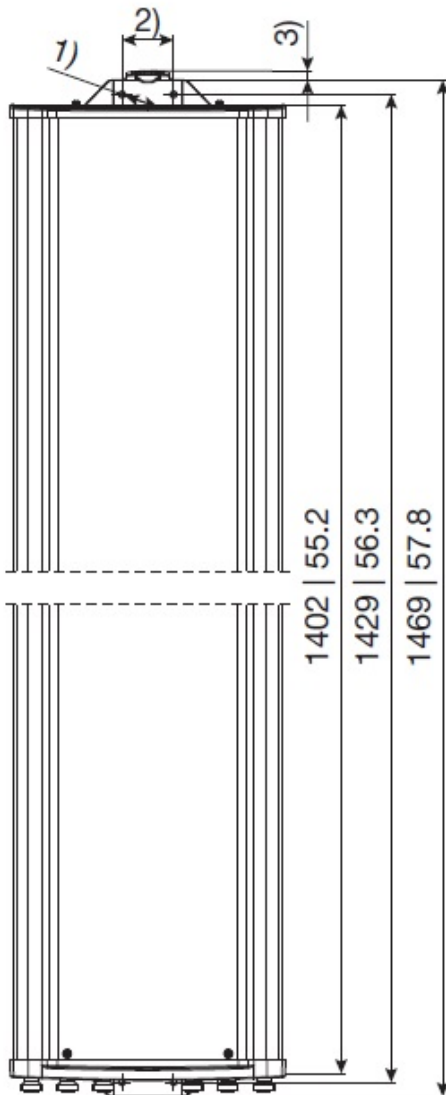
Order separately. For downtilt mounting use the clamps for an appropriate mast diameter together with the downtilt kit.

Related Documents

Security instruction DOC-0000278984

Sencity Special Communication Antenna 91121975

Additional Information



- 1) $\varnothing 9$ | 0.4
- 2) 72 | 2.8
- 3) 13 | 0.5

All dimensions
in mm | inches