



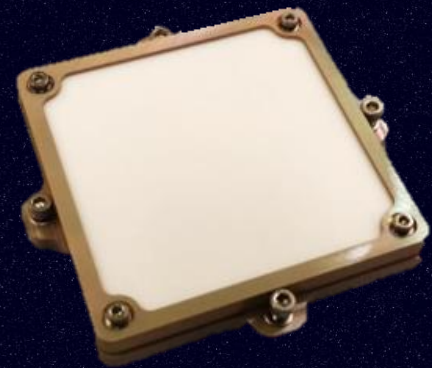
SMALLSAT PAYLOAD TELEMETRY ANTENNA

X-band
Medium gain
Compact size
Tx



ANYWAVES© X-band Antenna is a high quality and compact antenna (<1U). Perfectly suited for SmallSats in LEO, it is optimized for high data rate Payload Telemetry.

ANYWAVES© X-band antenna has a medium gain with excellent axial ratio. With more than 10 dBi gain over +/-10° in all planes, it guarantees a high data rate for your payload telemetry links.



Space Heritage

- ✓ **CNESAdvance Label** : material & processes used have French Space Agency heritage.
- ✓ **1 flight model in orbit in Q4 2019** : Eyesat 3U (CNES JANUS project).

Benefits

- ✓ High data rate **Payload Telemetry**
- ✓ Easily mounted and compact size
- ✓ Quick delivery and high production capability





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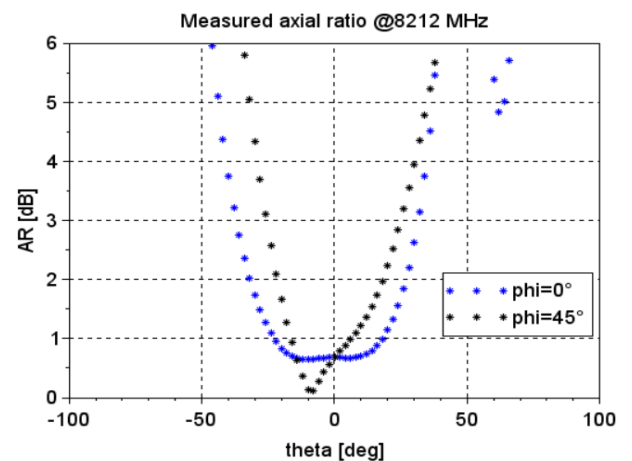
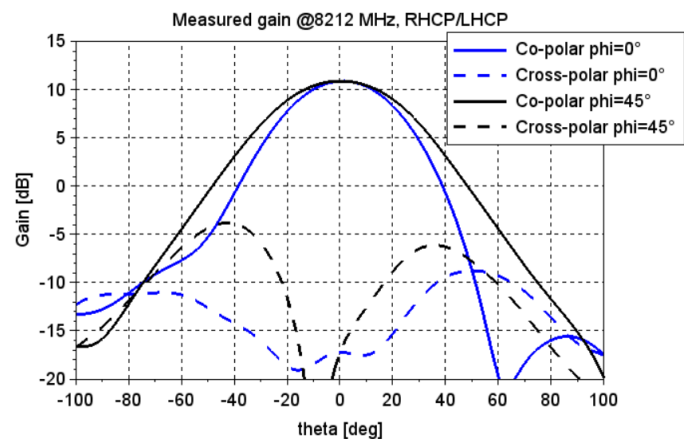
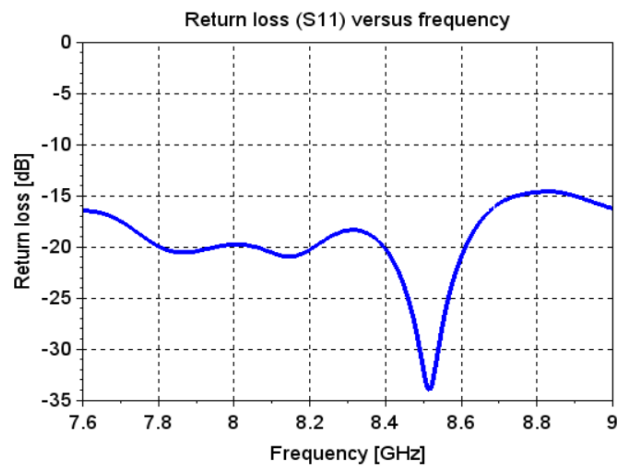
Typical Performance @8,2 GHz

| | |
|-----------------------|---|
| Frequency band | From 8.025 GHz to 8.4 GHz |
| Bandwidth | > 375 MHz |
| Polarization | Right or Left Hand Circular Polarization |
| Return loss | < -18 dB (all frequency band) |
| Half Power Beam Width | ~ 40° |
| Gain | Gain at boresight > 11.5 dBi Gain at +/-10° > 10 dBi |
| Axial Ratio | < 3 dB from 0° to +/- 10° |

Physical Characteristics

| | |
|--------------------------|---|
| Dimensions | Surface : 72,6 mm * 72,6 mm Height : 11 mm (w/o connector) |
| Mass | ~65 g (including radome and connector) |
| RF Power | More than 3W |
| Temperatures | -100°C / + 100°C |
| Radiation | VESPEL Radome |
| Electro Static Discharge | ESD free; an anti-ESD paint is applied on the radome. |
| Connector | Coaxial SMA female (50 Ohms) |
| Mechanical interface | 4*M2 screws |

Measured Performance



Model references : X-band-TM-RHCP-17v1 or X-band-TM-LHCP-17v1