

E-Band DCP Antenna

Space System

DESCRIPTION

E-Band Subsystem is a **2-port dual-circular-polarized (DCP) antenna**. It has been specially design for **space applications**, being perfect for smallsats for its **compact size (1U)**.

HERITAGE

With many years of experience within the aerospace sector, we offer the best of our experience in each new project, combining our know-how with the fulfillment of the highest quality standards

+ 20 SPACE PROGRAMS
+ 10 YEARS OF EXPERIENCE
+ 10 DEVELOPMENTS IN ORBIT

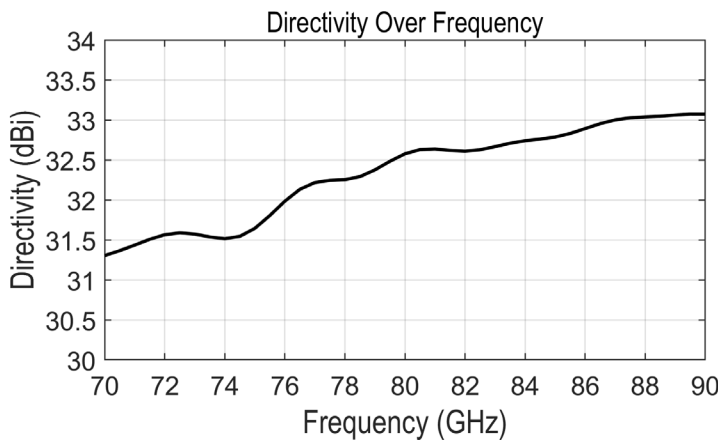
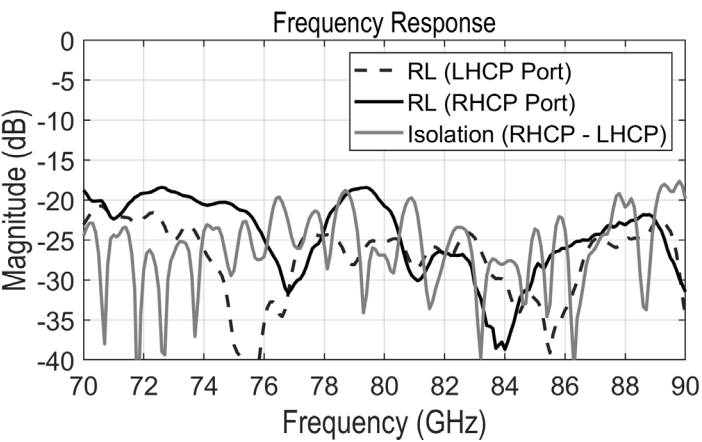
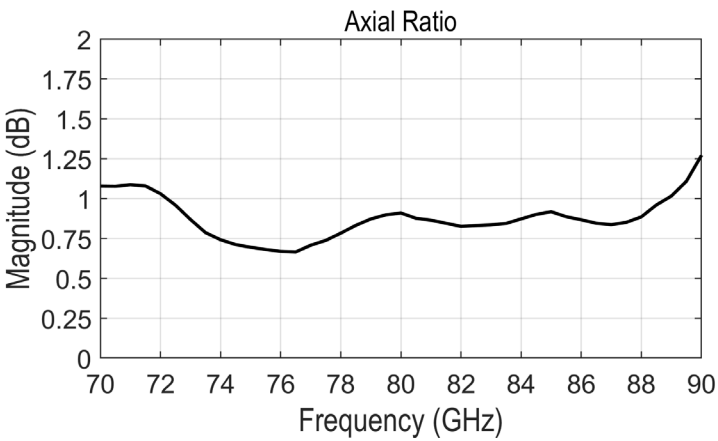
CLIENTS

Clients in more than **50 countries** trust in us. Leading companies all over the world believe in our capabilities to face the most demanding challenges.

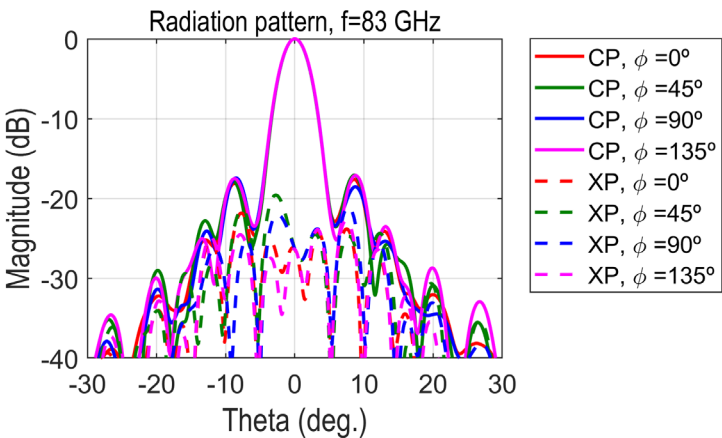
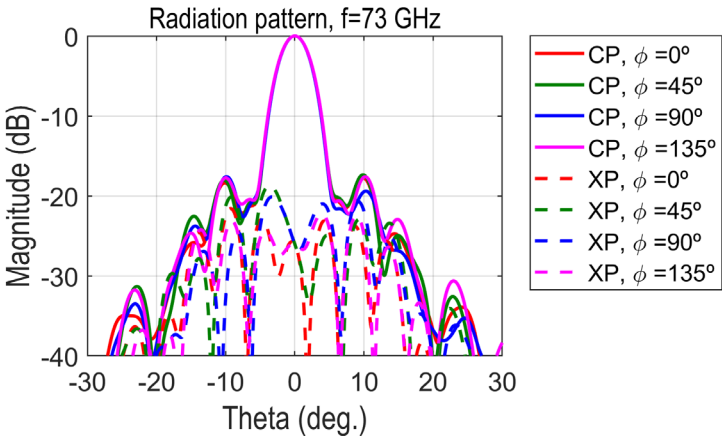


ELECTRICAL SPECIFICATIONS

| Parameter | Typical value |
|-------------------------|---------------|
| Frequency band | 71 - 86 GHz |
| Return Loss | 18 dB |
| Isolation between ports | 18 dB |
| Directivity | 31.5 dB |
| Axial Ratio | 1 dB |
| Cross-Polar | -20 dB |
| Angular Beamwidth | 4° |
| Polarization | RHCP & LHCP |



MECHANICAL SPECIFICATIONS



| Parameter | Description |
|-------------------|---------------------------|
| RHCP Port | WR12 (3.0988 x 1.5494 mm) |
| RHCP Flange | UG-387/U |
| LHCP Port | WR12 (3.0988 x 1.5494 mm) |
| LHCP Flange | UG-387/U |
| Size | 75 x 75 x 90 mm |
| Weight | 151.5 g |
| Material | Aluminum |
| Surface treatment | Surtec 650 V |

Additional notes

All values are typical and correspond to a measured sample. Actual values could vary slightly. The complete performance will be checked before delivery to fulfill specifications.

Last version: 08/11/2023



MECHANICAL OUTLINE

