

Ku-Band DCP Antenna

2U Space System

DESCRIPTION

Ku-Band Subsystem is a **4-port dual-circular-polarized dual-band antenna** for Ku band. It has been specially design for **space applications**, being perfect for smallsats for its **compact size**.

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

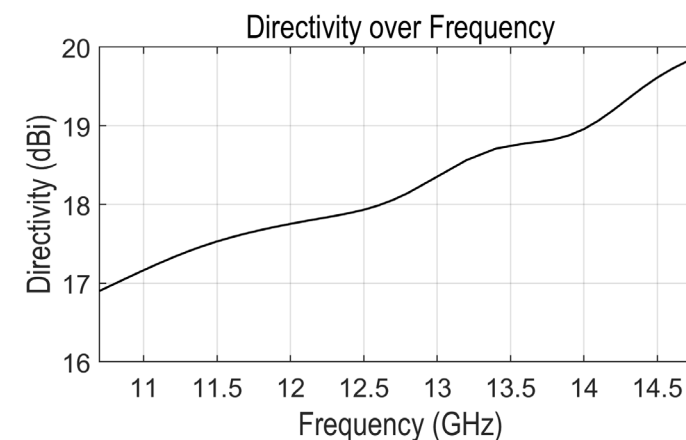
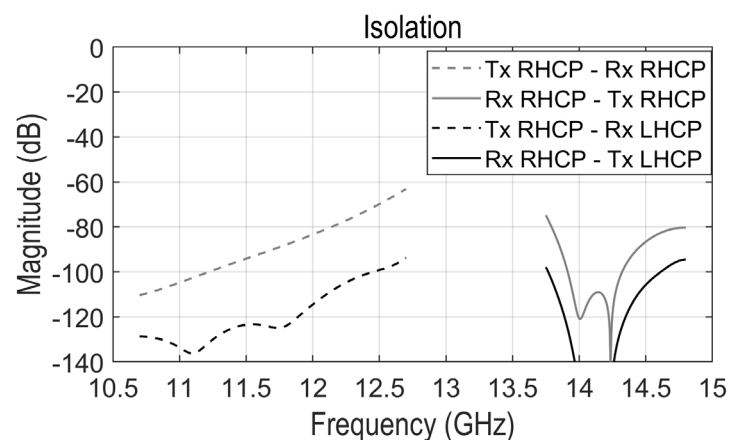
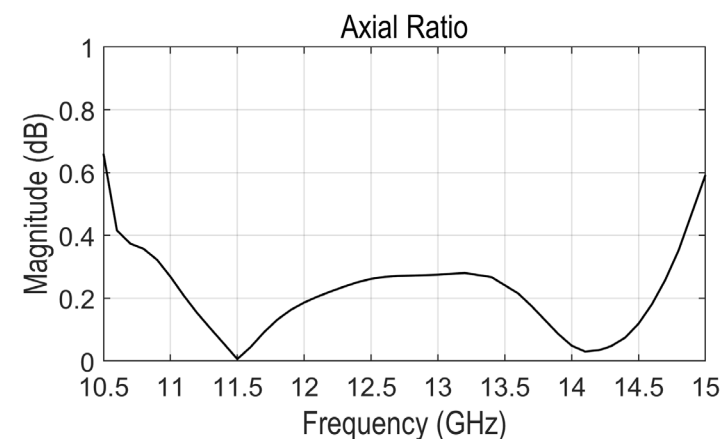
CLIENTS

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.

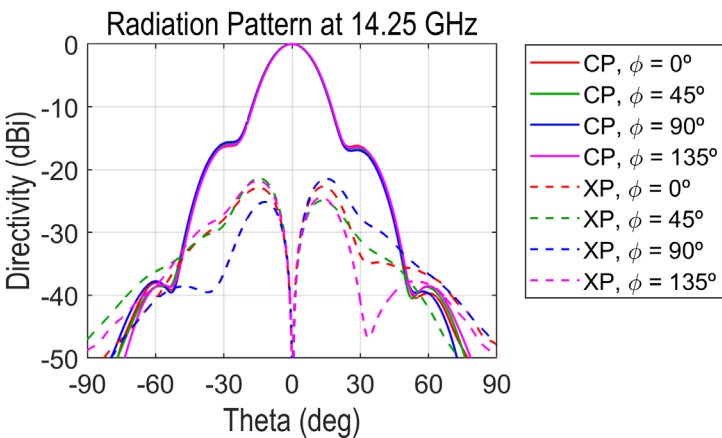
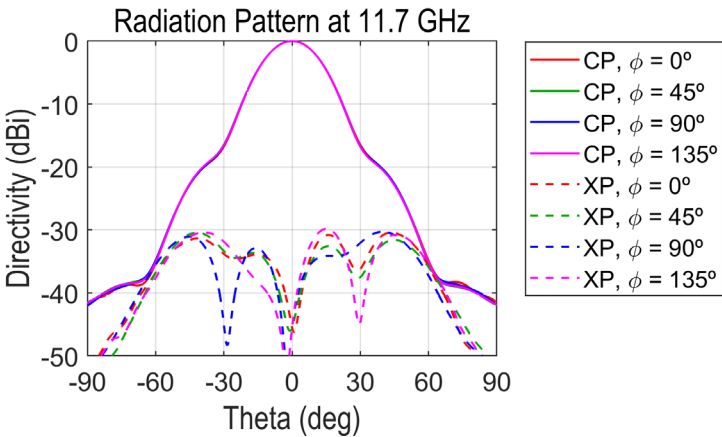


ELECTRICAL SPECIFICATIONS

Parameter	Typical value
Frequency band - Pass band TX	10.7 - 12.7 GHz
Frequency band - Pass band RX	13.75 - 14.8 GHz
Return Loss	17 dB
Isolation TX/RX & RX/TX	90 dB
Directivity	17 dB
Axial Ratio	0.5 dB
Cross-Polar	-20 dB
Angular Beamwidth	22°
Polarization	RHCP & LHCP for both TX and RX



MECHANICAL SPECIFICATIONS



Parameter	Description
RHCP TX Port	SMA connector (F)
RHCP RX Port	SMA connector (F)
LHCP TX Port	SMA connector (F)
LHCP RX Port	SMA connector (F)
Size	89 x 102 x 221 mm
Weight	700 g
Material	Aluminum

Additional notes

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

Last version: 27/03/2023



MECHANICAL OUTLINE

