

Q-Band DCP Antenna

Space System

DESCRIPTION

Q-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

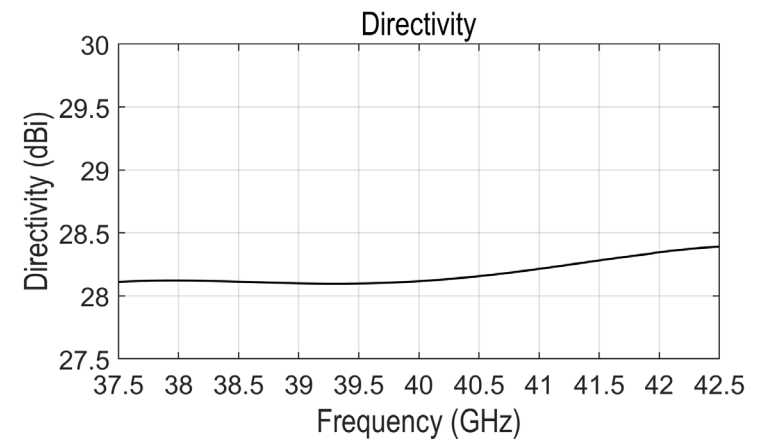
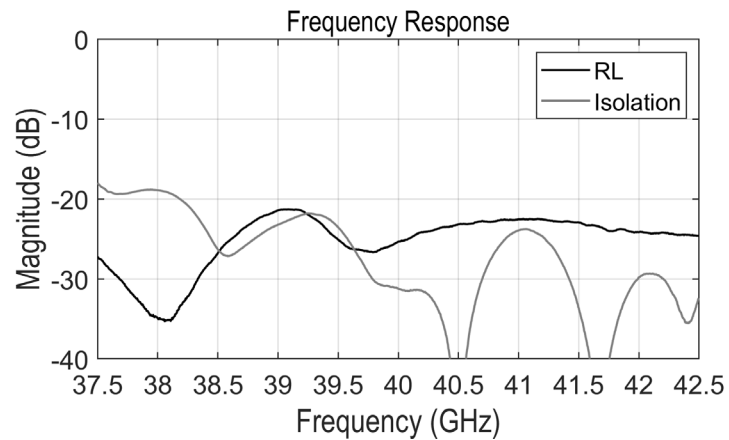
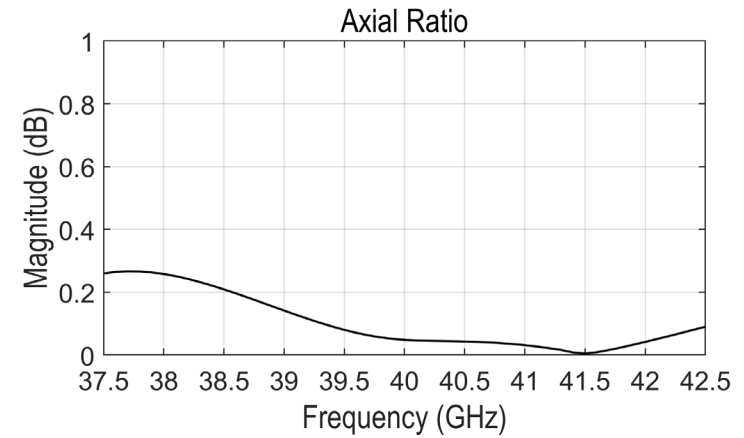
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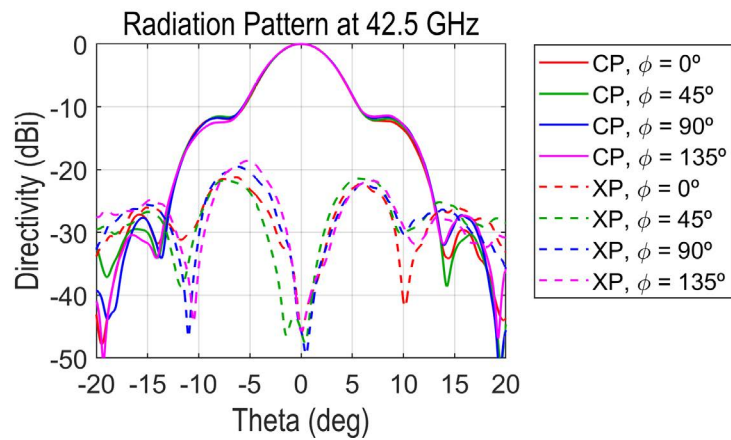
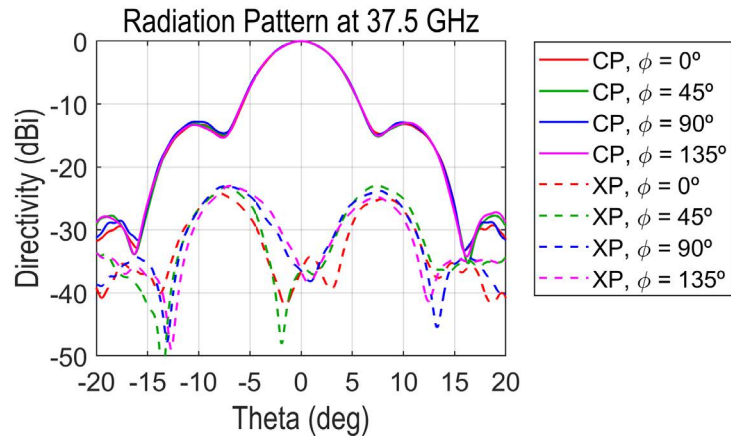
Clients in more than **50 countries** trust in us. Leading companies all over the world believe in our capabilities to face the most demanding challenges.



ELECTRICAL SPECIFICATIONS

Parameter	Typical value
Frequency band	37.5 - 42.5 GHz
Return Loss	23 dB
Isolation between ports	20 dB
Directivity	28 dB
Axial Ratio	0.3 dB
Cross-Polar	-20 dB
Angular Beamwidth	6.5°
Polarization	RHCP & LHCP





MECHANICAL SPECIFICATIONS

Parameter	Description
RHCP Port	WR22 (5.6896 x 2.8448 mm)
RHCP Flange	UG-383/U
LHCP Port	WR22 (5.6896 x 2.8448 mm)
LHCP Flange	UG-383/U
Size	99 x 99 x 118 mm
Weight	275 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.



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MECHANICAL OUTLINE

