

X-Band SAT Feeding Network

DESCRIPTION

X-band Feeding Network is designed to feed an antenna operating RHCP in TX channel and LHCP in RX channel. It is a **Circumplexer**, an innovative passive device designed to compact an antenna feeding network by integrating a polarizer and a diplexer in a single component. It is beneficial because the **reduction of flanges and screws** allows not only **mass and size reduction**, but also makes the structure **better in terms of PIM**.

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

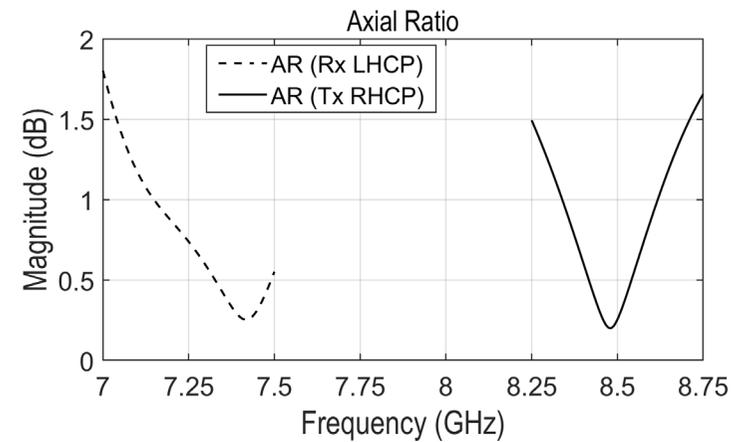
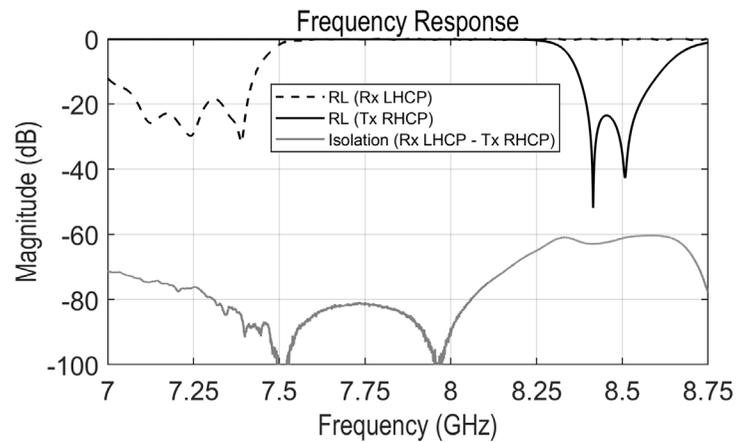
CLIENTS

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.



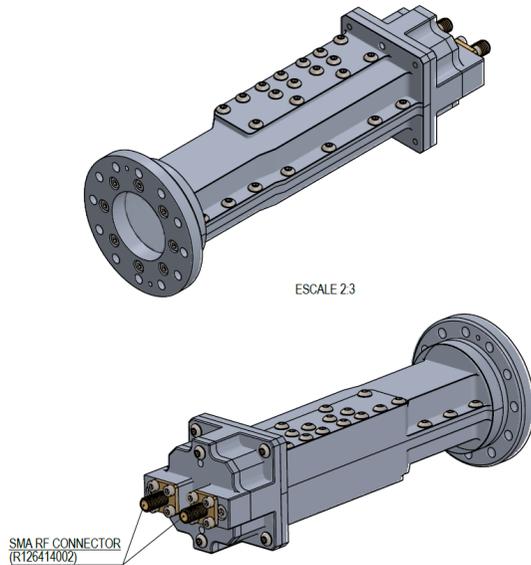
ELECTRICAL SPECIFICATIONS

Parameter	Typical value
Frequency band RX	7.2 - 7.4 GHz
Frequency band TX	8.4 - 8.55 GHz
Return Loss	18 dB
Isolation	60 dB
Axial Ratio	1 dB
Polarization	LHCP @ RX - RHCP @ TX



MECHANICAL SPECIFICATIONS

Parameter	Description
Antenna port	Ø 30 mm
TX Port & RX Port	SMA (F) connector
Size	61 x 61 x 185 mm
Weight	312 g
Material	Aluminum



Additional notes

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

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MECHANICAL OUTLINE

