

## DBS-KA Feed

### DESCRIPTION

This high-performance **six-port** terminal provides the capability of receiving and transmitting data from/to a satellite at **DBS and Ka bands** using **TE11 mode** and tracking capabilities at **Ka band** using **TE21 mode**, simultaneously, within any specific on-site infrastructure, since it can be easily mounted on desired structure. W

### 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

## DBS-BAND - TX

Parameter	Typical value
Frequency band Downlink	17.3 - 18.1 GHz
Polarization	RHCP & LHCP
Axial Ratio	0.5 dB
Insertion Losses	0.5 dB
Return Losses	18 dB
Power handling	300 W (Simultaneously, 600 W)

## KA-BAND - RX

Parameter	Typical value
Frequency band Downlink	25.5 - 27 GHz
Polarization	RHCP & LHCP
Axial Ratio	0.5 dB
Insertion Losses	0.5 dB
Return Losses	18 dB

## KA-BAND: TRACKING

Parameter	Typical value
Frequency band Downlink	25.5 - 27 GHz
Polarization	RHCP & LHCP
Axial Ratio	1 dB
Insertion Losses	1 dB
Return Losses	25 dB

## ISOLATION

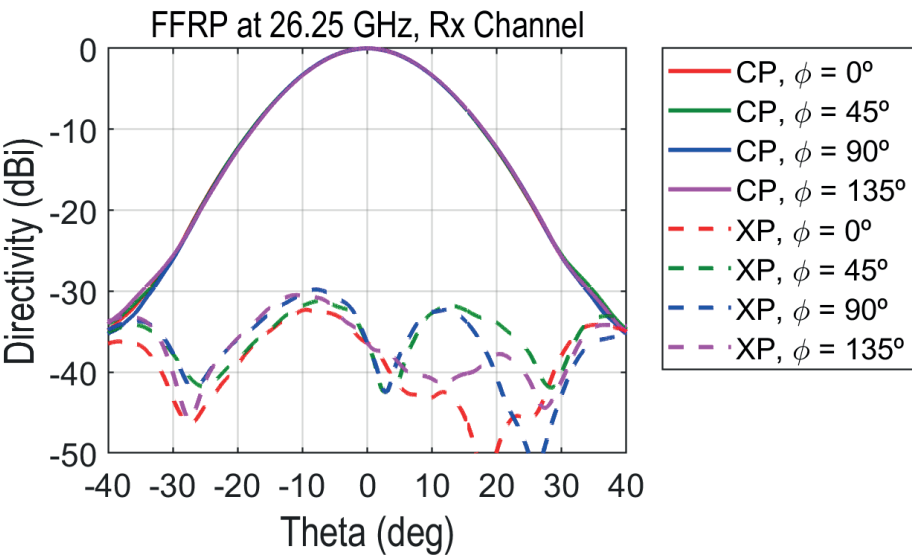
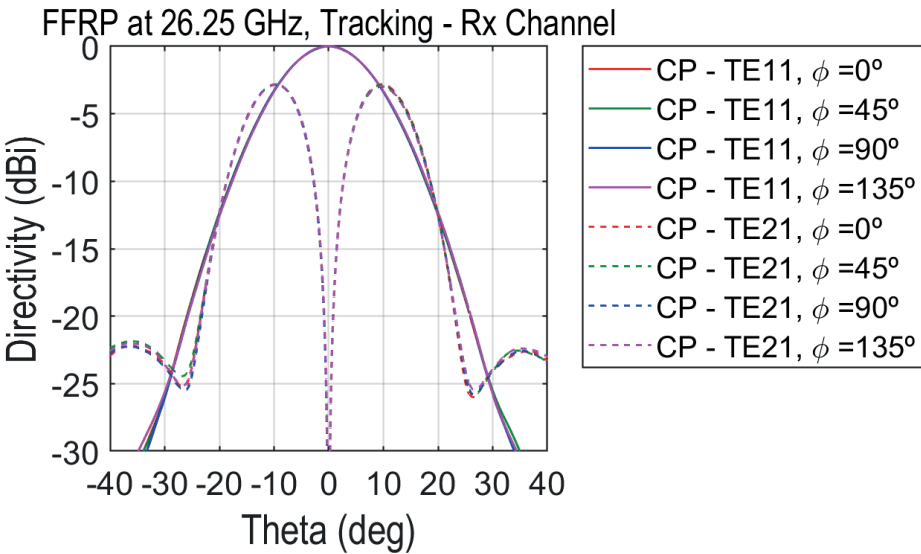
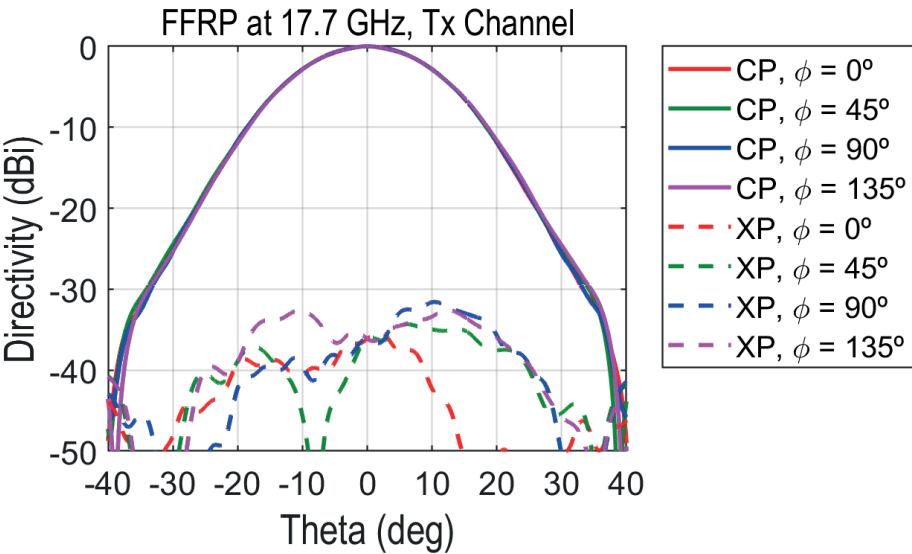
Parameter	Typical value
Isolation TX RHCP/LHCP - TX LHCP/RHCP	28 dB
Isolation RX RHCP/LHCP - RX LHCP/RHCP	28 dB
Isolation TRACKING RHCP/LHCP - TRACKING LHCP/RHCP	25 dB
Isolation TX RHCP/LHCP - RX RHCP/LHCP	100 dB
Isolation TX RHCP/LHCP - RX LHCP/RHCP	130 dB
Isolation TX RHCP/LHCP - TRACKING RHCP/LHCP	50 dB
Isolation TX RHCP/LHCP - TRACKING LHCP/RHCP	50 dB
Isolation RX RHCP/LHCP - TRACKING RHCP/LHCP	100 dB
Isolation RX RHCP/LHCP - TRACKING LHCP/RHCP	130 dB

## Additional notes

All values are typical. The figures 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 SPECIFICATIONS (FEEDER)

Parameter	Description
DBS-band Ports (x2)	WR-62 (UBR 140)
Ka-band Ports for TE11 mode (x2)	WR-34 (UBR 260)
Ka-band Ports for TE21 mode (x2)	WR-34 (UBR 260)
Size	158 x 463 x 412 mm
Weight	4.1 kg
Material	Aluminum

### MECHANICAL OUTLINE

