



PXY-750

PXY-750 offers exceptional pattern characteristics and a high gain. The possibility to configure the antenna with a circularly or linearly polarized multi-port combining network contributes to its exceptional versatility and high RF performance. This antenna solution is a durable and dependable antenna system capable of operating efficiently in the S, C, X, Ku, or Ka bands while withstanding environmental conditions.

Main reflector, sub-reflector, mount assembly, back struts, and feed assembly comprise the antenna. The aluminium alloy reflector is precision formed to ensure strength and accuracy while requiring little maintenance.

The primary reflector assembly is divided into multiple parts in order to facilitate transport to remote locations and decrease the overall shipping volume. After conversion coating and painting with a highly reflective white paint, the reflector panels are completed. A mount made of hot-dipped galvanized steel ensures pointing precision, durability, and dependability. The capacity to track LEO/MEO/GEO satellites will be ensured by the S/X band feed with MONOPULSE capabilities Antenna Control Unit and Tracking Receiver .

By employing brushless motors, the standard solution for electro-mechanics capabilities will guarantee an acceleration of up to 5° per second along the Az/EI axis. The acceleration and pace of the mechanical system may be modified at the customer's discretion. A de-icing sub-system comprising a cover plenum, heated air blowers, a dedicated PDB, a DCS (De-icing control system) temperature sensors and a snow/ice outdoor

Key Features

- EL/AZ Configuration
- Superior dependability and precision
- PC-based Automated Computer Control with P-Series ACU
- High Torque and Low Backlash
- Rapid Slew Rates
- Brushless Motors
- Rugged Construction
- Supports S-Band through Ka-Band



GENERAL SPECIFICATIONS

Reflector Diameter	7.50m
Mount Type	Elevation over Azimuth or X/Y
Feed Type	S/X band monopulse capability

RF CHARACTERISTICS

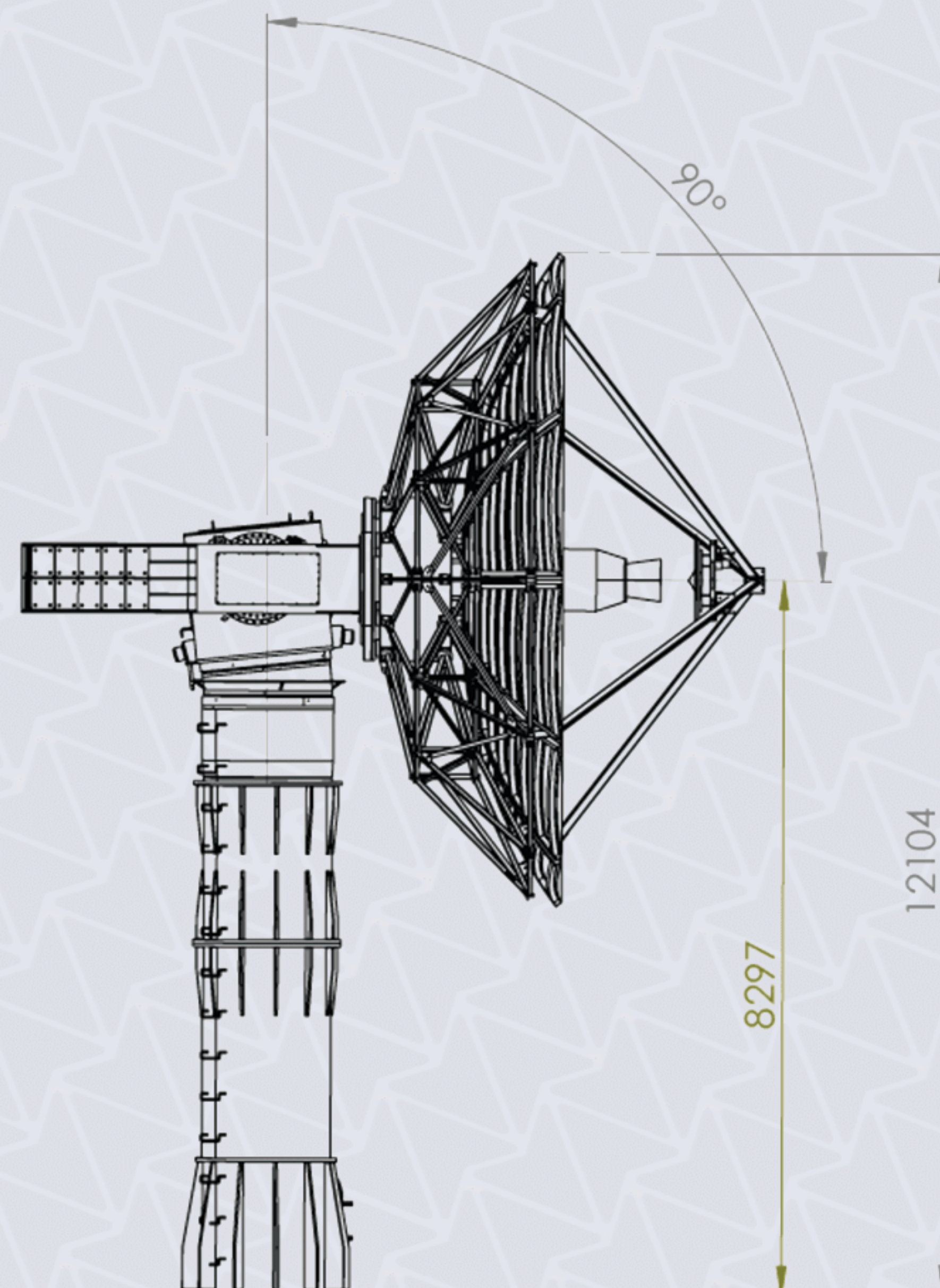
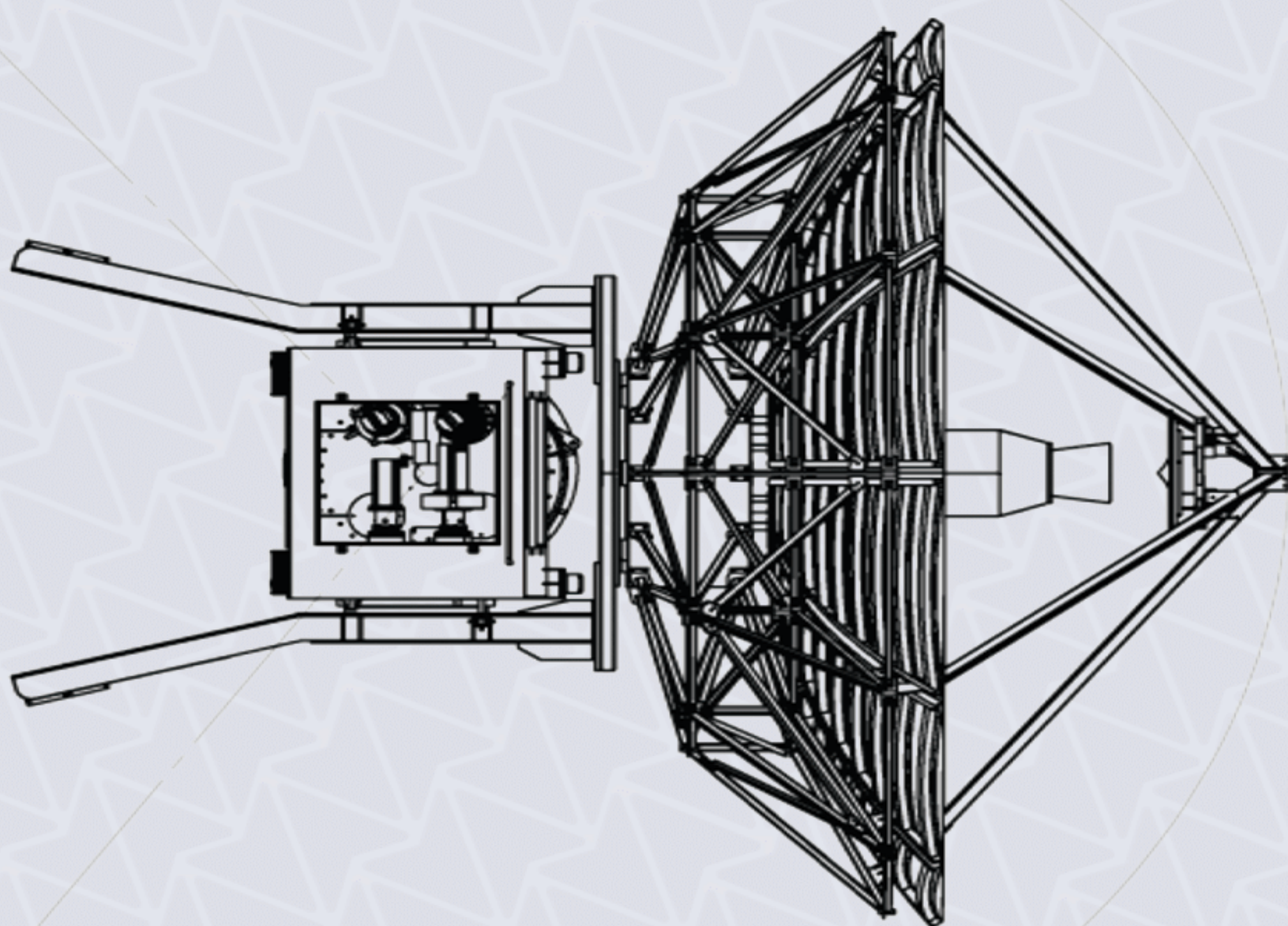
RF CHARACTERISTICS		S-BAND	X-BAND
Frequency (GHz)	Tx	2.025 - 2.120	
	Rx	2.200 - 2.300	8.00 - 8.40
Gain (dBi)	Tx	41.00	
	Rx	42.00	53.00
Feed		2 Rx ports RHCP/LHCP simultaneous 2 Tx ports RHCP/LHCP selectable	2 Rx ports RHCP/LHC
Port-to-Port Isolation (dB)		>30dB S-Band Rx to Rx / >70 dB S-Band Rx & Tx to X-Band Rx	
Return Loss (dB)		>20	
Polar. Discrimination (dB)		>25 within the 1dB contour of the pattern	
G/T (dB/K)		18.3 @ 2.2 GHz, 5° EI, 0.95 NF LNA	30.0 @ 8.2 GHz, 5° EI, 0.8 NF LNA
Feed interface		WR430	WR112
Sidelobes		As per ITU 580-6	
Surface Accuracy		≤0.4mm (R.M.S)	

MECHANICAL SPECIFICATIONS

Motion Range	EL 0°~ 90° AZ: ± 180 °
Drive Rate	AZ Up to 5°/s EL Up to 5°/s

ENVIRONMENTAL SPECIFICATION

Operation Temperature	-50 ~ +55°C
Survival Temperature	-55 ~ +65°C
Operation Wind Load	72km/h Up to 85 km/h Gusting
Survival Wind Load	200km/h (in stow position)
Humidity	0 to 100%



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