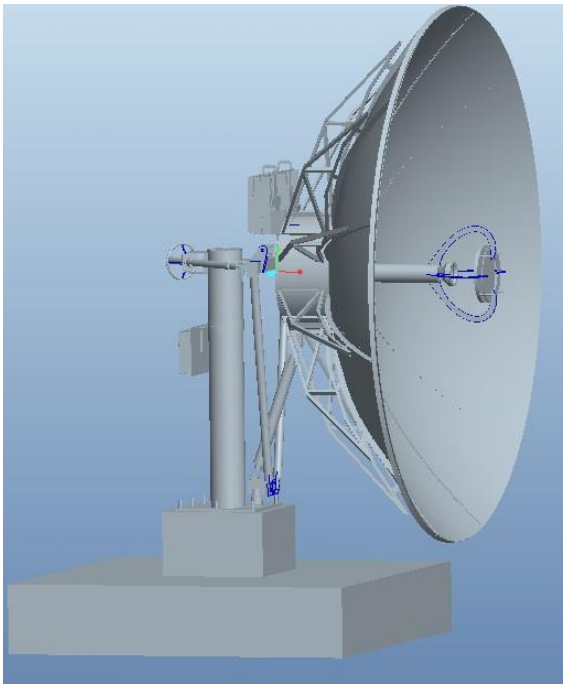
Starwin 4.5m Special C Band Antenna Datasheet



General Description of 4.5m Special C Band Antenna

4.5M ring focus antenna is a new type, high efficiency, low sidelobe, multi-purpose antenna, mainly used in VSAT communication network, data transmission microwave relay communication, and other applications. It can be configured for C-band or Ku-band as required. The reflective surface is made of high strength alloy aluminum plate drawing, quenching and forming, with high strength, no deformation, beautiful and durable characteristics. All ferrous metal parts are hot sprayed zinc surface treatment, good corrosion resistance. The antenna base is supported by a single column, which is convenient to install and reliable in structure.

Electrical Specification

Type	SW450SC-AL	
Operating Frequency, GHz	C-Band	
	Tx(Rx)	Rx(Tx)
	4.4~4.65	4.75~5.0
Gain, Mid-band, dBi	Tx(Rx): ⩾ 44+20lg[F(GHz)/4.5] dBi	Rx(Tx): ⩾ 45+20lg[F(GHz)/4.9] dBi
Polarization	2 Ports Linear Polarization	
XPD, dB	≥30	
VSWR	1.3:1	

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Antenna Noise Temperature 10° Elevation 20° Elevation 50° Elevation	 52K 46K 42K	
-3 dB Beam Width, Mid-band	1.23°	0.75°
Typical G/T, dB/K	≥24.36+20log(f/3.8GHz) EL =20°, LNA=30K	Tx Power capacity: 1KW
Feed Interface	WR-187	
Isolation, Tx to Rx, dB	80	
First Sidelobe 90% Peaks under Following Envelop	-14 29-25lgθ (1°≤θ≤20°)	

Mechanical Specification

Antenna Diameter		4.5m
Antenna Type		Ring Focus
Antenna Material		High Quality Aluminium
Surface Accuracy (RMS)		≤0.35mm
Antenna Pointing Range	Azimuth	±30°
	Elevation	-5° ~ 20°
Antenna Weight, Kg		1100

Environmental Specification

Operational Wind	74km/h
Survival Wind	198km/h
Temperature	- 40°C ~ + 60°C
Relative Humidity	10%~98%
Anti-seismic	Horizontal: 0.3G, S; Vertical: 0.15G, S

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