7.3 M Receive Only Antenna

Probecom can supply Satellite receive only antenna meet data receive and TV requirement. Probecom RXO antenna is made of high accuracy stretch-formed aluminum panel with stable structure. The RXO antenna systems with satisfactory performance of high gain, low side lobe and reliable operation, easy to operate and maintenance.

Options

- High Accuracy Stretch-formed Aluminum Panel
- Meet data receive and TV receive requirement
- C-band, ku-band, ka-band，S-band,L-band frequency as option
- Linear or Circular Polarized feed system as option;
- Single/Dual Polarization as option
- Manual/Motorized as option
- High Erosion Resistance
- Assembled and tested feed system before leaving factory;
- Survival Wind Speed125mph

Specification for 7.3m Rx antenna

Electrical Specification			
Type		7.3m Rx only antenna	
Operating Frequency, GHz		C-Band	Ku-Band
		Receive	Receive
		3.4~4.2	10.95~12.75
Typical Gain		47.4dB(F=3.8GHz)	56.8dB(F=11.8GHz)
Polarization		Linear/Circular	Linear
VSWR		1.3	1.3
Axial Ratio (Circular-Polarized) dB		0.5	
Feed Insertion Loss		0.5dB	0.4dB
Isolation (linear)		⩾30dB	⩾30dB
(circular)		⩾20dB	⩾20dB
Feed Interface		CPR-229F	WR-75
Side lobe level		CCIR580-4	
First side lobe		≤-14dB	
Mechanical Specification			
Antenna Diameter		7.3m	
Antenna Type		Ring Focus	
Surface Accuracy(RMS)		≤0.5mm	
Antenna Pointing Range	Azimuth	±85°(three section)	
	Elevation	0°~90°(Continuous)	
	Polarization	±90°(Continuous)	
Drive Mode		Manual or Motorized	
Motor Drive System	Azimuth Travel Rate	0.02°/S（0.05°/S）	
	Elevation Travel Rate	0.02°/S（0.05°/S）	
	POL Travel Rate	0.2°/S	
Environmental Specification			
Operational Wind		79km/h gusting to 126km/h	
Survival Wind		200km/h	
Temperature		-40°~+60°	
Relative Humidity		100%	
Solar Radiation		1135Kcal/h/m²	
Seismic(Survival)		0.3g(H), 0.15g(V)	
Ice Loading		13mm Operational; 25mm Survival	

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