

3.7 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
- Feed system/LBNF 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 Speed 125mph

Specification for 3.7m Rx antenna

Electrical Specification			
Type		3.7m Rx only antenna	
Operating Frequency, GHz		C-Band	Ku-Band
		Receive	Receive
		3.4~4.2	10.95~12.75
Gain, Mid-band, dBi		41.5	50.9
-3dB bandwidth, degree		1.44	0.47
Polarization		Linear/Circular	Linear
VSWR		1.3	1.3
Feed Insertion Loss		0.4dB	0.5dB
Isolation	linear	>30dB	>30dB
	circular	>15dB	>15dB
Axial Ratio		3	
Feed Interface		CPR-229F	WR-75
Side lobe level		CCIR580-4	
First side lobe		≤-14dB	
Mechanical Specification			
Antenna Diameter		3.7m	
Antenna Type		Prime Focus	
Surface Accuracy(RMS)		≤0.5mm	
Antenna Pointing Range	Azimuth	±90°	
	Elevation	0°~90°(Continuous)	
	Polarization	±90°(Continuous)	
Drive Mode		Manual or Motorized	
Motor Drive System	Azimuth Travel Rate	0.02°/S	
	Elevation Travel Rate	0.02°/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	