

1.2 METER KA BAND EARTH STATION ANTENNA

1. General Description

Probecom 1.2M Ka band antenna adopts all aluminum re-enforced reflectors, consisting of precisely formed panels with matched radials and hub assemblies, ensure the ease of installation. The standard designed azimuth over elevation pedestal provides a cost-effective solution for high stiffness and stability, full orbital arc coverage and fine drive performance, and ensures the pointing accuracy for Ka-Band.

It is widely and ideally used for Broadcasters, Service Providers, GSM operator, Satellite operator, Military and Government Agencies, FreeLands or Rescue Organizations.



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2. Two ports Circular antenna specification

RF Specification	Receive		Transmit
Operating Frequency, GHz	17.7-20.2		27.5-30.0
Gain,Mid-band, dBi	44.9+20Log(F/20)		48.5+20Log(F/30)
Polarization	LHCP/RHCP		10.0 (2020)
VSWR	1.30:1		
Antenna Noise temperature,K	110(Elevation 20°)		
Feed Insertion Loss, dB	0.4		
Axial Ratio,dB	2.5 2.5		
3dB bandwidth	0.92°		0.61°
Isolation, Tx to Rx, dB	>85		
G/T (dB/K)	>21.2+20lg(f/20)dB/K		
Side lobe	First lobe: ≤-14dB		
	ITU-RS 580		A(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Power handle			100W
Feed interface	WR42F (BJ-220)		WR28F(BJ-320)
Mechanical Specification			
Antenna Diameter		1.2m	
Reflector Material		Aluminum	
Antenna Optics		Dual modified Ringfocus	
Antenna Adjusting Range	AZ	O° to 90°, continuous Fine Adjustment	
	EL	±10° Fine Adjustment,360° Continuous	
Drive		manual	
Surface Accuracy		<0.25mm	
Environmental Specification			
Wind Loading		Operational 72km/h	
		Survival 200km/h	
Temperature		-40° to 60℃	
Rain(operational)		100mm/hr	
Relative Humidity		100%	