

1.8 METER KA BAND EARTH STATION ANTENNA

1. General Description

Probecom 1.8M 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	48.5+20Log(F/20)		52.0+20Log(F/30)
Polarization	LHCP/RHCP		
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	0.61°		0.41°
Isolation,Tx to Rx,dB	>85		
G/T (dB/K)	>24.7+20Lg(f/20)dB/K		
Side lobe	First lobe: ≤-14dB ITU-RS 580		
Power handle			100W
Feed interface	WR42F (BJ-220)		WR28F (BJ-320)
Mechanical Specification			
Antenna Diameter		1.8m	
Reflector Material		Aluminum	
Antenna Optics		Dual modified Ring focus	
Antenna Adjusting Range	AZ	0° 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%	