3.0 METER KA BAND EARTH STATION ANTENNA

1. General Description

Probecom 3.0M 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.

2. Highlighted Features

*High RF performance
*High gain, low sidelobes, low cross polarization
*Galvanized stainless steel hardware
*Different frequency ranges from many feed configurations

3. Options

*Full motion antenna
*Feed blower or deicing with automatic controls
*Two or four Tx/Rx port in linear or circular polarized feeds
*Installation and maintenance services

4. Antenna Accessory

Motorization Kits
Limit Switches
ODU Support Kits
Factory Feed System Testing and Documentation
Ocean /Air Transport Packing
Foundation Kit
Grounding Kit Cable-Mounting Kit

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5. Two ports Circular antenna specification

RF Specifications	Receive	Transmit
Operating Frequency ,GHz	17.7-20.2	27.5-30.0
Gain, Mid-band, dBi	52.9+20Log(F/20)	56.4+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	0.37°	0.25°
Isolation, Tx to Rx, dB	>85	
G/T (dB/K)	>29.1+20 lg(f/20)dB/K ITU-RS 580	
Power handle		500w
Feed interface	WR42F(BJ-220)	WR28F(BJ-320)

Mechanical Specification		
Antenna Diameter		3.0M
Reflector Material		Aluminum
Antenna Optics		Dual Modified Ring-focus
Antenna Adjusting Range	AZ	±90° (two sections)
	EL	5° to 90° Continuous
Drive Speed		0.01°/s
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%

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