

## 1.8 METER KA BAND SINGLE OFFSET ANTENNA DATASHEET

Electrical Specification		
Operating Frequency, GHz	KA-Band	
	Receive	Transmit
	20.2 ~ 21.2	30.0 ~ 31.0
Gain, dBi	49.6dBi@20GHz	53.2dBi@30GHz
-3 dB Beam Width	0.6°	0.4°
Polarization	Circular	
VSWR	1.3 : 1	1.3 : 1
Axial Ratio (Circular-Polarized)	0.6dB	0.6dB
Antenna Noise Temperature	110K@20°Elevation	
Side lobe Envelope	29-25 log ( $\theta$ ) dBi	
Tx. Power Capability, W		500w
Isolation, Tx to Rx, dB	80dB	
Feed Interface	WR42	WR28
Mechanical Specification		
Antenna Diameter	1.8m	
Reflector Material	Aluminum honeycomb sandwich panel	
Antenna Type	Single Offset	
Pedestal Type	AZ / EL ( Manual or Motorized )	
Antenna Travel Range	Azimuth	360° Adjustable
	Elevation	5° ~ 90°
Environmental Specification		
Operational Wind	20m/s	
Survival Wind	56m/s	
Temperature	-40°~+60°	
Rain	100mm/h	
Atmosphere Condition	Suitable for coastal zone, salt fog zone, industrial pollution area	
Solar Radiation	1000Kcal/h/m <sup>2</sup>	