Antesky Science Technology Inc.

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6.2M Ka-band Antenna with Turning Head Type

ELECTRICAL SPECIFICATON		
Type	6.2m Ka-Band	
Operating Frequency. GHz	Rx：17.7-21.2	Tx：27.5-31.0
Gain, Mid-band, dBi	≥59.7+20lg(F/20)	≥62.8+20lg(F/30)
VSWR	1.3:1	1.3:1
Noise Temperature(K)	4 port	
20° EL	≤130	
Power Capacity	/	500W(each port)
Interface type	WR-42	WR-34
Polarization type	Circular Pol.	
Feed Insertion Loss(dB)	≤0.8°	≤0.8°
Port Isolation(dB): Rx-Tx	≥85	/
Circular Pol. Tx-Tx, Rx/Rx	≥20	≥20
Axis ratio(dB)	≤0.5° (on axis)	≤0.5° (on axis)
First Sidelobe (dB)	≤-14	≤-14
Sidelobe envelope(more than 90% sidelobe envelope meet the requirement of this sidelobe envelope)	29-25lg(θ)dBi 1° ≤θ≤20° -3.5dBi 20° ＜θ≤26.3° 32-25lg(θ)dBi 26.3° ＜θ≤48° -10dBi θ＞48°	
Mechanical Specification		
Az travel range	±90°	continuous
El travel range	5° -90°	continuous
Surface Accuracy	≤0.3mm(R.M.S)	
Servo Control Specification		
Az speed	0.001° /s～1° /s	Dual DC motors
El speed	0.001° /s～1° /s	DC ball-screw
Operational mode	Manual control speed, manual control position, preset satellite position, step tracking, mono-pulse tracking	
Display resolution	0.001° option	
Tracking accuracy	1/10～1/15 beam width	
Servo power consumption	3kw/380V 0.5kw/220V	
Environment Specification		

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Wind Speed	Guaranteed accuracy wind operation 20.8m/s Degraded accuracy wind operation 28.4/s
Stow wind speed	35m/s
Not destroyed wind speed	55m/s(Antenna locking towards sky)
Temperature	-40℃～60℃(Outdoor) -20℃～60℃(Indoor)
Humidity	0%～100%
Earthquake(Survival)	0.3G’s(Horizon) 0.15G’s(Vertical)
Solar Radiation	360BTU/h/ft²
Ice	3 cm