

1.8m Ka band Transportable Fast Tracking Antenna

Product Category : Automatic LEO Tracking Transportable



Product Parameters

Antenna Category	Automatic LEO Tracking Transportable
Antenna Aperture	1.8m
Antenna Type	Feed Forward
Polarization	Circular
Frequency (Rx)	17.70-21.20GHz
Frequency (Tx)	29.00-31.00GHz

Port isolation (Rx-Tx)	≥ 85 dB
Port isolation (Tx-Rx)	≥ 40 dB
Gain(Rx)	$\geq 48.93 + 20\lg(f/20.00)$ dBi
Gain(Tx)	$\geq 52.45 + 20\lg(f/30.00)$ dBi
VSWR(Rx)	$\leq 1.5:1$
VSWR(Tx)	$\leq 1.5:1$
Motion range (AZ)	X Axis: $\pm 85^\circ$
Motion range (EL)	Y Axis: $\pm 85^\circ$
Motion range (POL)	
AZ	X Axis: $0.1 \sim 5^\circ/s$
EL	Y Axis: $0.1 \sim 5^\circ/s$
POL	
Initial acquisition time	≤ 3 min
Blockage recovery time	≤ 1 min
Power capacity	≤ 500 W
Operating Temperature	$-40^\circ\text{C} \sim +60^\circ\text{C}$
Storage Temperature	$-55^\circ\text{C} \sim +70^\circ\text{C}$
Humidity Requirement	95%(20°C)
Operating wind velocity	13m/s
Survival wind velocity	20m/s
Protection grade/IP Rating	IP65
Power supply	90~264VAC, 47Hz~63Hz
power consumption	≤ 350 W (No power amplifier)
Material	Carbon Fiber
Remarks	

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