

3.7m Ka band Transportable Fast Tracking Antenna

Product Category : Automatic LEO Tracking Transportable



Product Parameters

Antenna Category	Automatic LEO Tracking Transportable
Antenna Aperture	3.7m
Antenna Type	Feed Forward
Polarization	Circular
Frequency (Rx)	17.70-21.20GHz
Frequency (Tx)	29.00-31.00GHz

Port isolation (Rx-Tx)	$\geq 85 \text{ dB}$
Port isolation (Tx-Rx)	$\geq 40 \text{ dB}$
Gain(Rx)	$\geq 31.84 + 20\lg(f/2.20)\text{dBi}$
Gain(Tx)	$\geq 31.44 + 20\lg(f/2.10)\text{dBi}$
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: $0.1 \sim 5^\circ/\text{s}$
EL	Y Axis: $0.1 \sim 5^\circ/\text{s}$
POL	
Initial acquisition time	$\leq 3\text{min}$
Blockage recovery time	$\leq 1\text{min}$
Power capacity	$\leq 500\text{W}$
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	$\leq 350\text{W}$ (No power amplifier)
Material	Carbon Fiber
Remarks	

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