

7.3M S/Ka-band Full Motion Antenna Specification

ELE	CTRICAL SPECIFI	CATION		
Diameter	7.3M			
Operating Frequency, GHz	S-Band		Ka-Band	
	Receive	Transmit	Receive	
	2.20~2.30	2.025~2.120	25.5~27.0	
Gain, Mid-band, dBi	41.5+20log(f/2.2)	40.8+20log(f/2.025)	62.8+20log(f/25.5)	
Polarization	Circular		Circular	
VSWR	≤1.3:1		€1.3:1	
AR of CP	<1.5dB on axis		<1.0dB on axis	
Antenna Noise Temperature	105K max at 5° elevation@ 23℃		150K max at 5° elevation@ 23° C	
Typical G/T at 5 deg Elevation,	≥19 dB/°K		≥36.5 dB/° K	
Feed Interface	4-port CP feed with monopulse mode		2-port CP feed with monopulse mode	
Isolation, Tx to Rx, dB	≥-100			
Radiation Pattern:First Sidelobe	Compliant with ITU-R S.580-6			
MEC	HANICAL SPECIFI	ICATION		
Antenna Type	Ring-focus Antenna			
Antenna Pedestal Type	El over Az geometry full-motion Antenna			
Azimuth	±355°continuous, gear and pinion dual-motor drive			
Elevation	0°- 180°continuous, gear and pinion dual-motor drive			
Drive Rate	Az Axis : up to at least 10°/s El Axis : up to at least 10°/s			
Antenna Accessorial Parts and Interface	Hot Dip Galvanise, Hempel Paint over Galvanise, Lightning Arresting Rods, Lightning Arrestor down-conductors, Foundation HW, Hub, Enclosure with door, Cable routes for servo and downlink cables, Access ladder & platform,			
Antenna Drive	Motorized			
ENVIR	ONMENTAL SPECI	IFICATION		
Steady wind	Stead	Steady wind: 47km/h,gust: 72km/h		
Survival Wind	peak gust 200km/h			
Temperature	-20° C∼+60° C (Outdoor)			
	0%~100%			
Relative Humidity		0%~100%		