



2.4m KA Band Antenna

Feature

- * Meets or exceeds ITU-RS 580-5 and INTELSAT requirements
- * High G/T, excellent pattern characteristics
- * Self-aligning aluminum reflector, no field alignment
- * Factory feed system testing
- * All of steel parts to be processed by hot dipped zinc
- * 2-port or 4-port Linear/Circular Feed Field changeable feed system, switchable circular to linear C-band
- * Foundation hardware kit included
- * Air or ocean transport packing

Options

- * Specialized feed systems (e.g extended ,multi-band, Ka Band,DBS band)
- * Antenna control system with tracking (Steptrack, Program Tracking and Inclined Orbit Tracking)
- * Reflector and feed deicing systems
- * ODU Support Kits, Lightning Rod Kit, Grounding Kit and Cable-Mounting Kit
- * Turnkey installation and testing
- * Non-penetrating mount
- * High wind configuration



Email: sales@allseeingtech.com
WEB: www.allseeingtech.com



Tel: (+86)29-8886-0263
Cell:(+86)177-2929-5262

Electrical Specification			
Type	FS240-KA		
Electrical Operating Frequency Receive Transmit	Ka-Band Circular	Ka-Band Circular	Ka-Band Linear
	20.20 - 21.20 GHz	19.40 - 21.20 GHz	18.70 - 21.20 GHz
	30.00 - 31.00 GHz	29.20 - 31.00 GHz	27.00 - 31.00 GHz
Midband Gain (+/- .5 dB) Receive Transmit	51.6 dBi	51.5 dBi	51.4 dBi
	54.4 dBi	54.3 dBi	54.3 dBi
VSWR	1.3:1 max	1.3:1 max	1.5:1 max
Beamwidth(-3 dB)	Rx: 0.42° Tx: 0.29°		
Power Handling	100 W		
Antenna Noise Temperature			
10° Elevation	128 K	128 K	131K
20° Elevation	108 K	108 K	105K
40° Elevation	97 K	97 K	97K
Cross Polarization Isolation On Axis Within 1.0 dB Beamwidth	26dB	26dB	35 dB
	25dB	25dB	33 dB
Output Waveguide Interface Flange	Rx: WR42 Tx:WR28		
First Side lobe90%	-14		
Peaks under Following Envelop	29-25logθ(1°≤θ < 20°)		
Mechanical Specification			
Antenna Diameter	2.4m		
Antenna Type	Ring Focus		
Surface Accuracy (RMS)	≤0.3mm		
Antenna Pointing Range			
Azimuth	0°~360°, ±10°(Continuous)		
Elevation	0°~90°(Continuous)		
Polarization	±360°(Continuous)		
Drive Mode	Manual or Motorized		
Antenna reflector Material	Aluminum Alloy		
Finish of steel parts	Hot dipped Zinc		
Environmental Specification			
Operational Wind	72km/h gusting to 97km/h		
Survival Wind	216km/h		
Temperature	-40°~+60°		
Relative Humidity	100%		
Solar Radiation	1135Kcal/h/m ²		
Seismic(Survival)	0.3g(H), 0.15g(V)		
Ice Loading	13mm Operational; 25mm Survival		
Operational Wind	72km/h gusting to 97km/h		