

PRODUCT SPECIFICATIONS



7.6 Meter Ku-band, K-band Earth Station Antenna

he ASC Signal 7.6 meter earth station antenna provides high gain and exceptional pattern characteristics.

The electrical performance and versatility provide the ability to configure the antenna with a choice of linearly polarized or circularly polarized 2-port or 4- port combining networks. The 7.6 meter antenna is capable of operation at Ku-band and K-band with the selection of feed and combiner systems. This antenna features a computer-optimized dual reflector Gregorian system.

- High gain with excellent pattern characteristics.
- Rugged aluminum and steel construction.
- 3 Year warranty on structural components.
- Russian Homologation Certificate # OC/1-AO-136.



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Electrical Performance

	Linear	nd 2-Port Pol Feed e Tiansmit		nd 4-Port Pol Feed Transmit	Linear	d 2-Port Pol Feed e Tiansmit		and 4-Port ear Pol Feed e Transmit	
Frequency (GHz)	10.700- 13.250	13.750- 14.800	10.700- 12.750	13.750- 14.800	10.700- 12.750	17.300- 18.400	10.700- 12.750	17.300- 18.400	
Antenna Gain at Output Flan 11.9500 GHz 14.2500 GHz 17.3000 GHz	ge (dBi ±0.2 dB) Frequency 57.70 59.40		57.30 59.00		57.80 60.70			57.30 60.50	
Antenna Noise Temperature 10° Elevation 30° Elevation 50° Elevation	5.	Conditions at 68°F (20°C 5 K 1 K 6 K	<u>-</u>)	78 K 64 K 59 K		69 K 55 K 50 K		86 K 71 K 66 K	
Cross Polarization On Axis Within 1 dB Beamwidth	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	35 dB 35 dB	
Axial Ratio	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
VSWR Performance	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	1.30:1	
Port-to-Port Isolation Rx to Rx Tx to Rx Tx to Tx	N/A 40 dB N/A		85 dl	40 dB 3 40 dB	40	N/A O dB N/A		40 dB 85 dB 40 dB	
Waveguide Interface Flange	Brass WR75 Brass WR75		Brass WR75 Brass WR62			Brass WR75 Brass WR75		Brass WR75 Brass WR62	
Tx Power Capacity	2000 W		2000 W		20	2000 W		2000 W	

Mechanical Performance

Optics Type	Dual Reflector, Gregorian					
Reflector Material	Precision Formed Aluminum					
Reflector Segments	16					
Mount Type Tripod Mount						
Antenna Pointing Range		5° Coarse, 90° Continuous 180° Coarse, 120° Continuous 180° Coarse, 180° Continuous				
Hub/Enclosure Dimensions	Diameter Depth	,				

Environmental Performance

Operational Temperature	-40°C to 52°C (-40°F to 125°F)
Wind Loading (Survival) with Motor with Motor	200 km/h (125 mph) in Stationary Position 200 km/h (125 mph) in Stationary Position
Wind Loading (Operational) with Motor without Motor	72 km/h (45 mph) with Gusts up to 105 km/h (65 mph) 72 km/h (45 mph) with Gusts up to 105 km/h (65 mph)
Rain	102 mm (4 in per hour)
Relative Humidity	100%
Shock and Vibration	As Encountered by Commercial Air, Rail and Truck
Atmospheric Conditions	As Encountered by Moderately Corrosive Coastal and Industrial Areas



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All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice.

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