

Specifications

DTH

RF performance

	Ku-Band 80 cm Series	Ku-Band 80 cm Series
F/D	0.5	0.8
Operating frequency	10.70 – 12.75 GHz	10.70 – 12.75 GHz
Gain (± 0.3 dBi)	39.58 dBi @ 12.75 GHz	39.02 dBi @ 12.75 GHz
3 dB beamwidth	2.10° @ 12.75 GHz	2.25° @ 12.75 GHz
Antenna Cross-Polarization	> 30 dB (on axis)	> 30 dB (on axis)
VSWR	1.3 : 1 Max.	1.3 : 1 Max.

Mechanical performance

Material	Steel	Steel
Antenna Optics	One-piece offset feed prime focus	One-piece offset feed prime focus (Elliptical)
Mount Type	Elevation over azimuth	Elevation over azimuth
Elevation Adjustment Range	15° - 90° continuous fine adjustment	15° - 85° continuous fine adjustment
Azimuth Adjustment Range	360° Continuous	360° Continuous
Mast Pipe Size	42mm OD	42mm OD
Wind Loading (Operational) (Survival)	80 km/h 180 km/h	80 km/h 180 km/h
Temperature (Operational)	-40°C to 60°C	-40°C to 60°C
Rain (Operational)	10 mm/h	10 mm/h
Atmospheric Conditions	Salt, Pollutants and Contaminants as encountered in coastal and industrial areas: 720 hours ASTM B117 salt spray	Salt, Pollutants and Contaminants as encountered in coastal and industrial areas: 720 hours ASTM B117 salt spray
Humidity	0 to 100% with condensation	0 to 100% with condensation



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