Ka Band 75cm Transmit Receive Antenna



RF performance Azure Shine reflector with Newtec Ka-Band iLNB.

	Ka Band DV-75 Series
F/D	0.65
Operating frequency	TX: 27.00 – 31.00 GHz RX: 17.00 – 21.00 GHz
Gain (± 0.3 dBi)	TX : 48.3 dBi @ 30.00 GHz RX : 44.9 dBi @ 20.20 GHz
3 dB beamwidth	TX : 0.75° @ 30.00 GHz RX : 0.97° @ 20.20 GHz
Sidelobe Envelope, TX Co-Pol dBi 29-25logθ dBi 8 dBi 32-25logθ dBi -10 dBi	$100\lambda/D \le \theta \le 7^{\circ}$ $7^{\circ} < \theta \le 9.2^{\circ}$ $9.2^{\circ} < \theta \le 48^{\circ}$ $48^{\circ} < \theta \le 180^{\circ}$
Antenna Cross-Polarization within 1dB b/w	TX:>25 dB RX:>23 dB
VSWR	1.3 : 1 Max.
Certification	Eutelsat



Mechanical performance

Material	Galvanized Steel
Antenna Optics	One-piece offset feed prime focus
Mount Type	Elevation over azimuth
Elevation Adjustment Range	$0^{\circ}90^{\circ}\text{continuous}$ fine adjustment; fine adjustment accuracy $\leqq 0.1\text{degree}$
Azimuth Adjustment Range	360° Continuous; $\pm 3^\circ$ fine adjustment; fine adjustment accuracy ≤ 0.1 degree
Mast Pipe Size	60mm OD (2.36 inch)
Wind Loading (Operational)	80 km/h
(Survival)	180 km/h
Temperature (Operational)	-40°C to 60°C
Rain (Operational)	10 mm/h
Atmospheric Conditions	Salt, Pollutants and Contaminants as encountered in coastal and industrial areas: 720
	hours ASTM B117 salt spray
Humidity	0 to 100% with condensation

Please note that product designs and specifications are subject to refinement and may evolve from the descriptions provided.