

RF performance Azure Shine International reflector with Newtec Ku-Band iLNB

	Ku-Band	DV-75 Series
F/D	0.65	
Operating frequency	TX : 13.75 – 14.50 GHz RX : 10.70 – 12.75 GHz	
Gain (± 0.3 dBi)	TX : 41.5 dBi @ 14.50 GHz RX : 40.2 dBi @ 12.75 GHz	
3 dB beamwidth	TX : 1.30° @ 14.50 GHz RX : 1.50° @ 12.75 GHz	
Sidelobe Envelope, TX Co-Pol dBi	$100\lambda/D \leq \theta \leq 7^\circ$ $7^\circ < \theta \leq 9.2^\circ$ $9.2^\circ < \theta \leq 48^\circ$ $48^\circ < \theta \leq 180^\circ$	
29-25log θ dBi		
8 dBi		
32-25log θ dBi		
-10 dBi		
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° - 90° continuous fine adjustment; fine adjustment accuracy \leq 0.1 degree
Azimuth Adjustment Range	360° Continuous; $\pm 3^\circ$ fine adjustment; fine adjustment accuracy \leq 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



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