Series1385

Satcom & Antenna Technologies Division

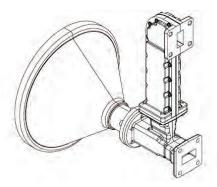


Overview

The CPI Satcom & Antenna Technologies Inc. (CPI SAT) 3.8 meter Ku-Band antenna delivers ideally suited for demanding commercial applications. The four (4) piece compression molded reflector is precision manufactured for high-efficiency C or Ku-Band operation. The Az/El mount is designed for installation on 10.75" OD Pedestals, using the supplied pipe flange. The 4-piece reflector construction allows for the ease of handling and increased shipping efficiency.

The Series 1385 Antenna is available with a variety of feed options. The Tier-3 Feed Support is ideal for mid to heavy weight RF electronics packages. For even heavier RF equipment, a feed stabilizer is optional for 1385 Series. (Standard. with Ku-Band models)





FEATURES:

- Four piece transmit quality SMC reflector
- Fine azimuth & elevation adjustments
- 2 Port Ku-Band linear feed
- Durable & rugged construction for ease of shipping & handling
- Feed stabilizer for heavy RF packages up to 100 lb (45 kg) included in Ku-Band system



Specifications

ELECTRICAL ⁽¹⁾	Ku-Band Linear Receive Transmit
Antenna Aperture	3.8 m (150 in)
Operating Frequency (GHz)	10.70 - 13.75 - 12.75 14.50
Antenna Gain, Midband (± .3 dB)	51.2 dBi 53.0 dBi
Antenna Noise Temperature 10° Elevation 20° Elevation 30° Elevation	60 K 55 K 50 K
Sidelobe Envelope (Co-Pol, dBi) $100\lambda/D < \theta \le 20^{\circ}$ $20^{\circ} < \theta \le 26.3^{\circ}$ $26.3^{\circ} < \theta \le 48^{\circ}$ $48^{\circ} < \theta < 180^{\circ}$	29 - 25 Log ⊖ dBi -3.5 dBi 32 - 25 Log ⊖ dBi -10 dBi (typical)
3 dB Beamwidth	0.5° 0.4°
Polarization	Linear, Orthogonal
Cross Polarization Isolation	30 dB (on Axis)
VSWR	1.3:1 Max 1.3:1 Max
Feed Interface Flange	WR75 Flat WR 62 Flat
Power Handling	1 kW

⁽¹⁾ Some specifications may vary based on the combination of equipment, options and/or upgrades ordered.



3.8 Meter Ku-Band RxTx Antenna

Specifications

MECHANICAL ⁽¹⁾			
Reflector Material		Glass fiber reinforced polyester SMC	
Antenna Optics		Prime focus, offset feed, 4-piece (.6 F/D)	
Mount Type		Elevation over azimuth	
Elevation Adjustment Range		12° to 90° continuous fine adjustment (0° to 45° Inverted)	
Azimuth Adjustment Range		360° continuous with \pm 35° fine adjustment	
Mast Pipe Interface		10 in Sch 40 Pipe, 273 mm (10.75 in) OD (special flange)	
Max RF Electronics Weight		Tier 3 = 30 lb. (100 lb. w/ optional Feed Stabilizer)	
ENVIRONMENTAL ⁽¹⁾			
Wind Loading	Operational Survival	45 mph (72 km/h) 125 mph (201 km/h)	
Temperature	Operational Survival	40° to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)	
Rain	Operational	¹ /2 inch (13mm)	
Ice	Survival	¹ /2 inch (13mm) radial	
Atmospheric Conditions		Salt, pollutants and contaminants as encountered in coastal and industrial areas	
Solar Radiation		360 BTU/h/ft ² (1,000 Kcal/h/m ²)	

⁽¹⁾ Some specifications may vary based on the combination of equipment, options and/or upgrades ordered.

