



Mobile Telesystems, Inc.

MTI 1.2 METER KU-BAND ANTENNA MODEL KT2848

LIGHTWEIGHT KU-BAND TRANSMIT AND RECEIVE ANTENNA



MTI Advantages:

- ◆ **Lightweight**
- ◆ **Deployable**
- ◆ **Quick Setup**
- ◆ **Truly Collapsible**

VSAT APPLICATIONS:

- | | |
|-------------------------------|------------------------------------|
| Data Transmissions | Telephone and Voice Traffic |
| Video Teleconferencing | Site Surveys |
| Broadcast Events | Emergency Communications |
| Remote Networking | Surveillance |

Visit Our Website:
<http://www.mti-usa.com>

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COLLAPSIBLE FLYAWAY TRANSMIT AND RECEIVE ANTENNA

Ku-Band Specifications	Transmit	Receive
Frequency	13.75-14.5 GHz	10.7-12.75 GHz
Feed - 2 Port orthogonal		
Polarity	Linear	Linear
Return Loss	20 dB typ	18 dB typ
Insertion Loss	0.2 dB typ	0.4 dB typ
Tx/Rx Isolation	80 dB	40 dB
Feed Interface	WR75	WR75
Antenna		
Efficiency	72%	78%
Midband Gain	43.6 dBi	42.4 dBi
Noise Temperature		50K@10°EL 45K@30°EL
3 dB Beamwidth (Midband)	1.21°	1.37°
Cross Polarization On Axis Within 1 dB Beamwidth	42 dB 30 dB	42 dB 30 dB
G/T @ 20° Elevation 85° LNA @ Midband (clear Sky)		21.2 dB/K
First Sidelobe Level (+/- 2 dB)	-26 dB	-28 dB
Transmit & Receive SideLobe Level >97% below	29-25 log θ -3.5 32-25 log θ -10	100 λ /D < θ ≤ 20° 20° < θ ≤ 26.3° 26.3° < θ ≤ 48° 48° < θ
Mechanical Data		
Antenna Optics	Single Offset	
Mount Type	Tripod With Elevation over Azimuth	
Elevation Adjustment	0° to 90° Coarse & Fine Adj.	
Azimuth Adjustment	±15°	
Weight (Antenna & Tripod)	47 lbs.	
Weight (Antenna & Tripod & Case)	90 lbs.	
Environmental Specifications		
Wind Load (With Ballast Anchors)	Operational Survival (gusts)	30 mph/48 kmh 50 mph/80 kmh
Temperature	Operational	-30° to 130°F
	Survival	-50° to 150°F
Rain	Operational	0.5"/h 1.3 cm/h

All Product Specifications subject to change without notice

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