

Troposcatter Antenna Series

Troposcatter is used for radio communications over the horizon links when satellite links are marginal or unavailable. It is a very convenient data transmission system for many radio communication applications. Troposcatter requires high power transmitters, sensitive receivers, and high gain antennas.

ARA offers a wide variety of designs for increased power and high efficiency feeds for Troposcatter applications. ARA's specialized Angle Diversity Troposcatter feeds add another order of diversity in addition to frequency, polarization, and space. This capability enhances link fade margins and minimizes error rates.

All Troposcatter feeds are tailored for optimum use in specified parabolic reflectors. For systems using coaxial transmission lines, Waveguide to Coax adaptors can be supplied separately or integrated into the feeds.

Antenna Type	Feed
Application	Military Communications
Frequency Band	S (2 - 4 GHz), C (4 - 8 GHz)
Polarization	Dual Linear



C2002 Antenna Model

Frequency Range: 7.25 - 7.75 GHz

FEATURES

- Custom designs
- High efficiency
- High power
- Available with various reflector sizes - 8 ft, 10 ft, 12 ft
- Suitable for Beyond Visual Line of Sight (BVLOS) communications
- Optimum performance
- Made in the USA

Model	Frequency	Polarization	Isolation	VSWR	Power	Dimensions
8447-804	2.55 - 2.70 GHz	Dual Linear	Co-pol: 19 dB min Cross-pol: 30 dB min	1.3:1	10 kW CW	14" x 9.75" x 17"
8474-800	4.4 - 5.0 GHz	Dual Linear	36 dB min	1.35:1	5 kW CW min	6.12" x 9.08"
C2003-800	4.4 - 5.0 GHz	Dual Linear	35 dB nominal	1.3:1	5 kW CW	14.27" x 12.34" x 7.73"
C2002-850	7.25 - 7.75 GHz	Dual Linear	35 dB nominal	1.3:1	5 kW CW	8.32" x 7.48" x 4.93"

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