

LT-ANT-148-174-2.5

VHF HIGH-GAIN BASE STATION ANTENNA

The LT-ANT-148-174-2.5 is a high-performance fiberglass omnidirectional base antenna engineered for VHF communication systems operating in the 148–174 MHz frequency range. With a gain of 2.5 dBd (4.65 dBi) and a power rating of up to 500 watts, this antenna delivers reliable signal transmission and reception across various professional communication applications. Built with a fiberglass radome and designed for all-weather operation, it ensures superior durability and long-lasting performance in both commercial and industrial environments.

Key Features

- **Wide Frequency Range:** Operates within 148–174 MHz VHF band for flexible communication coverage.
- **High Power Handling:** Supports up to 500 watts, ensuring robust and consistent performance.
- **Enhanced Gain:** Provides 2.5 dBd (4.65 dBi) gain for clear and stable signal transmission.
- **Rugged Fiberglass Radome:** Offers superior protection and durability against environmental conditions.
- **All-Weather Operation:** Designed to maintain performance under extreme temperature and weather exposure.
- **Low VSWR:** Maintains a 1.5:1 or less VSWR for minimal signal reflection and improved efficiency.
- **Omnidirectional Pattern:** Ensures 360° horizontal coverage for consistent communication in all directions.

Features	LT-ANT-148-174-2.5
Frequency Range	148-174 MHz
Antenna Gain	2.5 dBd / 4.65 dBi
Power Rating	500 watts
Impedance	50 Ω
VSWR	1.5:1 or less
Pattern	Omnidirectional
Vertical Beamwidth	38°
Termination	N Female / Optional DIN-F
Dimensions (Length x Diameter)	60" x 2.75"
Tower Weight (Antenna + Clamps)	12 lb / 5.5 Kg
Shipping weight	16 lb / 7.5 Kg
Wind Rating (0.5" ice)	200 / 150 MPH
Maximum Exposed Area	1.3 Sqft
Lateral Thrust at 100 mph	50 lb / 23 Kg
Compatible Clamp	LT-C/ANT-SM & LT-C/ANT-BU (sold separately)



Applications

VHF base station and repeater networks
Public safety and emergency communications
Aviation, marine, and transportation networks
Critical infrastructure coverage
Wide-area urban and rural deployments

Ordering Information

The LT-ANT148-174-2.5 belongs to the VHF Low Power Antenna Series (2.5 dBi, 500W, slim 3 m radome).

Other available models in this other series :

LT-ANT-380-470-2.5 (380-470 MHz)

Custom options are available upon request, including specific frequency ranges, connector types, and channel bandwidths.

