

LT-ANTD1-145-175-5

VHF 1-ELEMENT DIPOLE ANTENNA

The LT-ANTD1-145-175-5 is a 1-element VHF dipole antenna designed for the 145–175 MHz band. With 5 dBi gain and 300 W power handling, it delivers reliable omnidirectional coverage for base station and repeater systems. Its broadband design ensures stable performance across the band, while its rugged aluminum and fiberglass construction guarantees durability in demanding outdoor environments.

Key Features

- Frequency range: 145–175 MHz
- Gain: 5 dBi
- 300 W maximum input power
- Adjustable offset circular, cardioid, or bidirectional patterns (with multiple dipole configurations)
- Low VSWR (≤ 1.5) across full band
- DC grounded for lightning protection
- Constructed with fiberglass radome and aluminum alloy
- Compact and lightweight, easy to install
- Supplied with mounting hardware for vertical or offset alignment



Feature	LT-ANTD1-145-175-5
Frequency Range	145–175 MHz
Bandwidth	30 MHz
Gain	2.15 dBi (omni) / 5 dBi (directional)
Vertical Beamwidth	80°
VSWR	≤ 1.5
Impedance	50 Ω
Max. Power	300 W
Polarization	Vertical
Connector	N Female or 7/16 DIN
Dimensions (H \times D)	1400 \times 100 mm
Weight	5.5 kg (with clamps)
Lightning Protection	DC Grounded
Wind Rating	60 m/s

Applications

VHF base station and repeater systems
Public safety and emergency communication networks
Utility and transportation networks
Industrial and infrastructure coverage
Rural and suburban wide-area deployments

Ordering Information

The LT-ANTD1-145-175-5 belongs to the Dipole Antenna Series (1, 2, and 4-element options). Other available models in this series include:

LT-ANTD1-380-470-5 (380–470 MHz, 1-element)
LT-ANTD2-145-175-7 (145–175 MHz, 2-element)
LT-ANTD2-380-470-7 (380–470 MHz, 2-element)
LT-ANTD4-144-174-11 (144–174 MHz, 4-element)
LT-ANTD4-380-470-11 (380–470 MHz, 4-element)
LT-ANTD4-406-512-11 (406–512 MHz, 4-element)

Custom options are available upon request, including frequency tuning, connector types, and mounting configurations.

Product specifications are subject to change without prior notice.

For more information, visit www.lamatel.com or send an email to sales@lamatel.com

