LT-ANT-138-174-3DF

VHF HIGH-GAIN BASE STATION ANTENNA

The LT-ANT-138-174-3DF is a high-performance fiberglass omnidirectional base antenna optimized for VHF communication systems operating within the 138–174 MHz frequency range. Delivering a 3±1 dBi gain and a full 360° horizontal beamwidth, it provides stable and consistent coverage ideal for demanding communication networks. Built with rugged fiberglass construction and an IP65 waterproof rating, the LT-ANT-138-174-3DF ensures long-lasting reliability and superior performance in both urban and remote outdoor environments.

Key Features

- Wide Frequency Range: Covers 138-174 MHz, ideal for a broad range of VHF communication systems.
- High Gain Performance: Delivers 3±1 dBi gain for enhanced signal strength and long-distance coverage.
- Omnidirectional Coverage: Provides 360° horizontal beamwidth for reliable, all-direction communication.
- Rugged Fiberglass Construction: Built with durable fiberglass radome for long-term outdoor performance.
- All-Weather Operation: Rated IP65 waterproof and resistant to salt spray, ensuring dependable operation in extreme conditions.

Elect	rical Specifications
Frequency Range	138~ 174 MHz
Bandwidth(MHz)	Wide Band
Polarization	Vertical
Gain	3±1 dBi
Horizontal Beamwidth	360°
Vertical Beamwidth	68±15°
Horizontal Unroundness	±1.5 dB
Impedance	50 Ω
VSWR	≤1.5
Maximum Input Power	500 W
Mecha	anical Specifications
Connector Type	DIN-F
Connector Position	Bottom
Antenna Size	ф70* (1450±20) mm
Antenna Weight	2.5±0.05 (exclude the bracket) Kg
Radome Material	Fiberglass
Radome Color	Blue @Fiberglass
Operating Temperature	-50 ~ + 70
Relative Humidity	5 ~ 95 %
Rated Wind Velocity	60 m/s
Salt Spray Resistance	96Hour Neutral GB/T 2423.17-2008)
Waterproofing Grade	IP65
Applications	Outdoor
Mounting Diameter	ф70-ф114
Mounting Kit	Butterfly Bracket

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-ANT-138-174-3DF belongs to the Base Station Antenna Series (3±1 dBi, 500W, slim 3 m radome). Other available models in this other series:

LT-ANT-138-174-3DF (138-174 MHz) LT-ANT-400-440-3DF (400-440 MHz) LT-ANT-440-480-3DF (400-480 MHz)

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

