

LT-ANT-380-470-2.5

UHF HIGH-GAIN BASE STATION ANTENNA

The Lamatel LT-ANT-380-470-2.5 is a high-efficiency UHF omni-directional antenna engineered for professional-grade communication networks, covering the 380–470 MHz frequency range. With its broadband capability, rugged fiberglass construction, and all-weather performance, this antenna delivers consistent signal strength, low interference, and exceptional durability.

Whether deployed for UHF base stations, TETRA networks, or multipoint communication systems, the LT-ANT-380-470-2.5 ensures superior performance with 2.5 dBd (4.65 dBi) gain, optimized for clear and reliable data or voice transmission. Designed for industrial, government, and commercial applications, this antenna combines robust construction with Lamatel's reputation for engineering excellence.

Key Features

- **Wide Frequency Coverage:** Operates seamlessly across 380–470 MHz, suitable for both UHF and TETRA systems.
- **High Efficiency Design:** Delivers 2.5 dBd / 4.65 dBi gain with a low VSWR $\leq 1.5:1$, ensuring minimal signal loss.
- **Omnidirectional Coverage:** Provides uniform 360° horizontal coverage for dependable communication in every direction.
- **All-Weather Operation:** Built with a fiberglass radome to withstand rain, heat, and UV exposure without performance degradation.
- **High Power Handling:** Rated at 500 watts, ideal for demanding base station applications.

Parameter	Specification
Model	LT-ANT-380-470-2.5
Frequency Range	380–470 MHz
Antenna Gain	2.5 dBd / 4.65 dBi
Power Rating	500 W
Impedance	50 Ω
VSWR	$\leq 1.5:1$
Radiation Pattern	Omnidirectional
Vertical Beamwidth	38°
Termination	N-Female (Standard) / 7/16 DIN-Female (Optional)
Dimensions (L × Base Ø)	42" × 2.75" (approx. 1067 × 70 mm)
Tower Weight (Antenna + Clamps)	9 lb / 4 kg
Shipping Weight	11 lb / 5 kg
Wind Rating (0.5" Ice)	200 mph (321 km/h)
Maximum Exposed Area	1.0 ft ²
Lateral Thrust @100 mph	38 lb / 17 kg
Operating Temperature	-46°C to +70°C
Color	Blue
Mounting Hardware	LT-C/ANT-SM or LT-C/ANT-BU (sold separately)

Applications

UHF 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 High Power Base Antenna Series (2.5 dBi, 500W, slim 3m radome).

Other available models in this other series :

LT-ANT-148-174-2.5 (148-174 MHz)

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

