



SWT-LHA Low Profile Transit Antennas

The LHA low profile vehicle antennas are designed for transit applications with severe height limitations such as buses, trains, and trucks. Radiation is omnidirectional and the antenna is vertically polarized. The base plate is fitted with a high stability trimmer capacitor to facilitate VSWR adjustment. The radiating element is enclosed in a tough ABS molding with an aluminum base plate. These antennas are also suitable for ceiling mounting in large buildings, shopping centers or railway stations.

Features

- Compact design for limited height clearance vehicular applications
- High impact ABS radome for long lasting performance
- Suitable for high pressure vehicle washing
- Digital PMR mobile or fixed applications

Antenna Electrical Specifications

Model	Frequency	Gain
LHA400*	380-430 MHz	Unity
LHA400/5M	380-430 MHz	Unity
LHA450*	420-470 MHz	Unity
LHA450/5M	420-470 MHz	Unity

Mechanical Specifications

Model	Feeder Length	Weight (Mass)
LHA400*	3.28 ft (1 m) feeder, BNC attached	0.88 lbs (0.4 kg)
LHA400/5M	16.4 ft (5 m) feeder	0.88 lbs (0.4 kg)
LHA450*	3.28 ft (1 m) feeder, BNC attached	0.88 lbs (0.4 kg)
LHA450/5M	16.4 ft (5 m) feeder	0.88 lbs (0.4 kg)

**SWT-LHA****MAXRAD**

Technical Data

Maximum Power: 100 watts
Polarization: Vertical
Nominal Impedance: 50 ohms
VSWR: 1.5:1 typically
Radiator Material: Black ABS, UV stabilized Aluminum base
Lightening Protection: DC grounded
E-Plane Beamwidth (-3 dB): As for $\lambda/4$ antenna
H-Plane Beamwidth (-3 dB): Circular within +/-0.5 dB (using ground plane $\lambda/2$ square)
Feeder Tail: 1m URM76 (other lengths available)
Dimensions (diameter x H): 7.01 in x 1.38 in (178 mm x 35 mm)
Connector Options: BNC plug standard (attached)
Antenna Type: Low profile horizontal omnidirectional use antenna

*Fitted with single trimmer