

PCTEL® VHF 148-160 MHz Antenna - ASPB574

ASPB574



VHF-Antenna for the frequency range from 148 - 160 MHz

The ASPB574 antenna from PCTEL® is specially designed for the application of traffic light priority in public transport in Germany. Many of our Customers use this antenna on buses to communicate via VHF radio with the traffic lights and switch them to green when a vehicle is approaching.

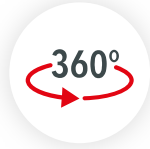
The outer housing is designed to withstand high impact while the functionality is maintained. The antenna requires a metallic mounting surface with a minimum diameter of 1.2 m for optimum performance.

- VHF-Antenna for the frequency range from 148 - 160 MHz
- Specially developed for public transport for traffic light priority
- Can be used under difficult environmental conditions
- High antenna performance in the specified frequency range

MODELLE	DESCRIPTION	ANTENNA CONNECTOR
ASPB574	Low-profile VHF antenna for mounting on vehicle roofs	UHF (f) (SO-239)

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PRODUCT FEATURES



Omnidirectional antenna

Omnidirectional radiation characteristic ideal for most applications.



Public Transport

Specially developed for public transport for traffic light priority.



Frequency range

This antenna offers 148 - 160 MHz frequency range.



Antenna gain

0 dBi antenna gain.



IP67 protection

Suitable for outdoor use with IP67 protection against water and dust.

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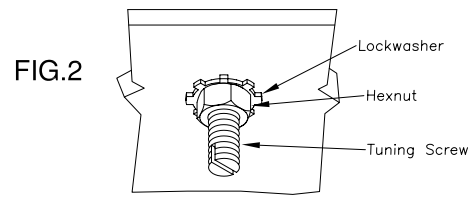
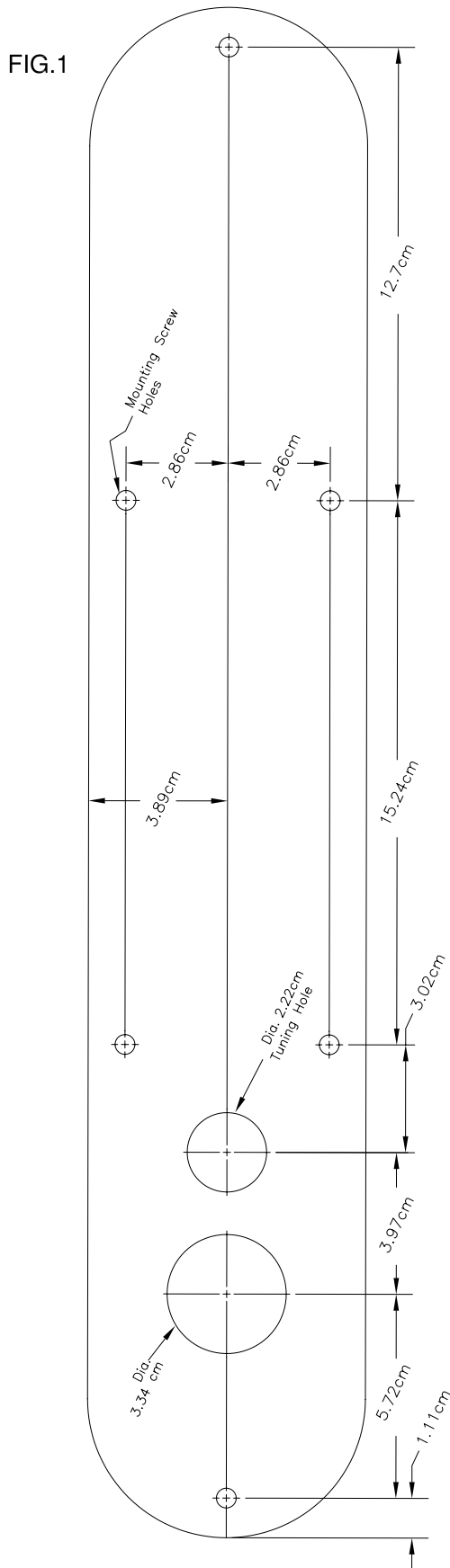
SPECIFICATIONS

ASPB574	
Antenna elements	1 x VHF
Frequency range	148 - 160 MHz
Antenna gain	0 dBi
Antenna cable	-
Antenna connector	UHF (f) (SO-239)
Compatible with	VHF frequencies

GENERAL INFORMATION	
Antenna type	UHF/VHF-Antennas
Construction type	Low-Profile Antenna
Application area	Indoor/Outdoor
Radiation characteristic	Omnidirectional
Integrated Antenna elements	1 x VHF
Groundplane needed?	Yes
Gain (typical)	0 dBi
VSWR	<2.0:1
ELECTRICAL CHARACTERISTICS	
Transmission power (max)	100 W
Impedance	50 Ohm
Polarization	Vertical
PHYSICAL CHARACTERISTICS	
Material	ASA
Dimensions	104 x 432 x 89 mm (W x L x D)
Mounting options	Roof mounting on vehicles

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MOUNTING



Installation Instructions

1. Select an installation site large enough and flat enough for the antenna base footprint. The antenna will perform best when installed on a metallic ground plane with minimum dimensions of 1.20 x 1x20 m.
2. Use the dimensional drawing to drill the specified mounting holes in the mounting surface.
3. Place the rubber pad between the mounting surface and the antenna. Make sure that the mounting screws have a secure connection to the metal base surface. The tightening torque for the mounting screws should be 0.57 Nm.
4. Loosen the hex nut set screw with a 0.98 cm wrench. Using an RF wattmeter in the antenna line and a straight screwdriver, adjust the lower VSWR screw. The antenna is factory tuned to the lower edge of the band. Turn the screw counterclockwise to raise the frequency. Re-tighten the hex nut on the tuning screw once the antenna is tuned to the desired frequency. The recommended mounting torque is 3.39 Nm.

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ACCESSORIES ANTENNA CABLE



Antenna cable - Configurator

With the Welotec cable configurator it is easy, to find the right coax cable for your needs.

Choose your desired cable from a large selection on cable types and combine it with the suitable connection.

Available connections:

SMA, RP-SMA, TNC, RP-TNC, BNC, N

Available cable types:

RG174, RF195, Aircell 5, RG58, RG223, H155 PE, Aircell 7