AA3153 Toll Antenna

Features

- Low-profile antenna
- Virtually no side or back lobes
- Weatherproof enclosure

The AA3153 Toll Antenna broadcasts and receives radio frequency signals in the 902 to 928 MHz radio frequency band. It is specifically designed for toll lane applications, with virtually no side or back lobes, which helps confine antenna coverage to a single lane width. The AA3153 Toll Antenna is ideally suited to applications requiring a low profile antenna.

A weatherproof enclosure provides favorable electrical characteristics, resistance to ultraviolet radiation, and maximum corrosion resistance. The AA3153 Toll Antenna includes a sturdy aluminum backplate with mounting hardware, a multi-patch array, and matching network.

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COMMUNICATIONS

Frequency Range
902 to 928 MHz

Gain
10.5 dB_i

Polarization
Linear — horizontal

Cross Polarization
< -15 dB

Side Lobes
£ -25 dB

VSWR
1.9:1

Impedance
50 ohms nominal

Half-Power Beam Width
50° E-plane and 60° H-plane

HARDWARE FEATURES

Connector
N-Type socket

PHYSICAL

Dimensions
Size (LxHxD): 20.06* x 15.13 x 2.50 in.
(50.96 x 38.43 x 6.35 cm)
*Length includes mounting flanges

Weight: 6.4 lb (2.9 kg)

Mounting Location
15 to 20 ft (4.6 to 6 m) above lane

Mounting Method
To support pipe with a maximum outer diameter of 3.0 in. (7.6 cm)

ENVIRONMENTAL

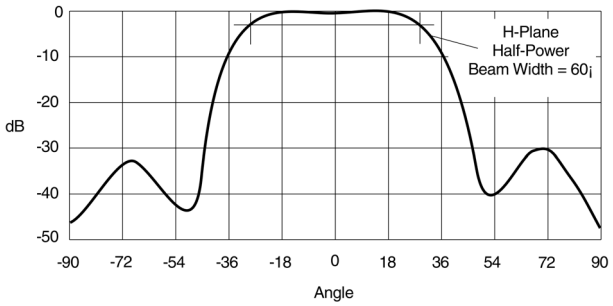
Temperature
-40°F to +167°F (-40°C to +75°C)

Humidity
100% condensing

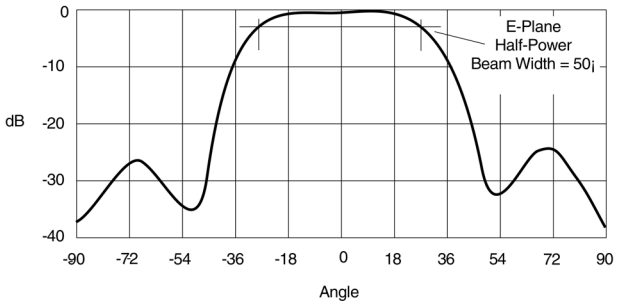
Vibration Tolerance
0.5 G_{rms}, 10 to 500 Hz

OPTIONS

Check Tag
The AA3153 Toll Antenna may be ordered without an internal check tag or with the AT5720 external check tag installed.



H-Plane Read Pattern



E-Plane Read Pattern

For more information:

Call **800.923.4824** (Sales Support) **505.856.8007** (Technical Support)

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