

AA3152 Universal Toll Antenna

FEATURES

- Specifically designed for toll lane applications, with virtually no side or back lobes, which helps confine antenna coverage to a single lane width
- Ideally suited to applications requiring a low-profile antenna
- Weatherproof enclosure that provides favorable electrical characteristics, resistance to ultraviolet radiation, and maximum corrosion resistance



The AA3152 Universal Toll Antenna (UTA) is used to broadcast and receive radio frequency (RF) signals in the 902 to 928 MHz frequency band.

For installations requiring a relatively symmetrical, three-dimensional reading area, the UTA offers a broadcast pattern of similar size and shape in both the horizontal and vertical planes.

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COMMUNICATIONS

Frequency Range
902 to 928 MHz

Gain
13 dB_i

Polarization
Linear-horizontal

Cross Polarization (with respect to main beam)
-20 dB

Side Lobes (with respect to peak of main beam)
≤ -15 dB

VSWR
1.9:1

Impedance
50 ohms nominal

Half-Power Beam Width
32° E-plane and 35° H-plane

HARDWARE FEATURES

Connector
Type N female

PHYSICAL

Dimensions
Size: 80 x 5.7 x 50.8 cm
(31.5 x 2.25 x 20 in)

Weight: 11.7 kg (26 lb)

Mounting Height
4.6 m to 6 m (15 to 20 ft) above lane
4.9 m (16 ft) optimum

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

Enclosure
Weatherproof radome

ENVIRONMENTAL

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

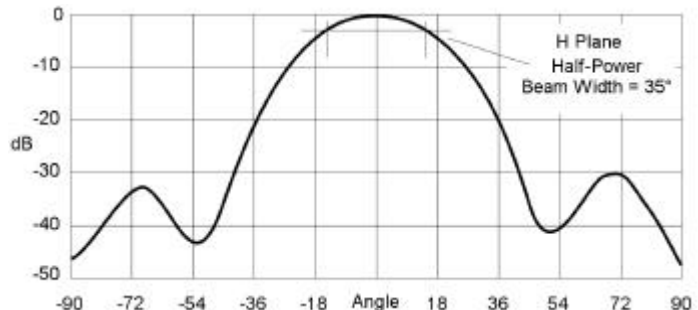
Humidity
100% Condensing

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

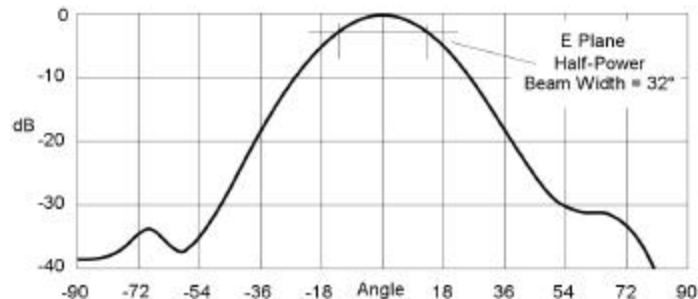
OPTIONS

Check Tag
May be ordered with either the AT5720 or IT2501 check tag installed

H-Plane Read Pattern



H-Plane Read Pattern



TransCore Headquarters: Harrisburg, PA

For more information on Amtech® products, call: 1.800.923.4824 or 972.733.6600 (outside the U.S.) Fax 972.733.6699

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