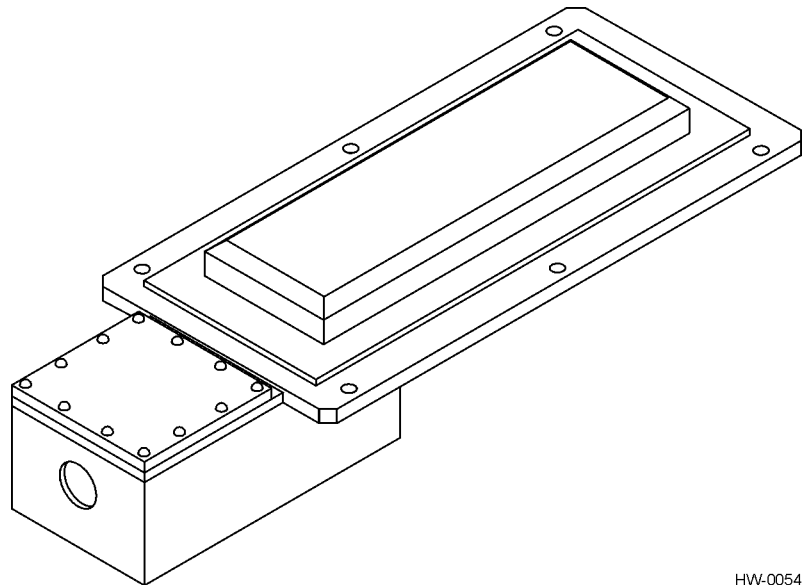


FEATURES

- **Constructed for high shock and vibration environments**
- **Rugged weatherproof enclosure**
- **Dimensions compatible with standard rail and rail tie spacings**

AA3233 Rail Antenna



HW-0054

The AA3233 Rail Antenna is a rugged 915 MHz antenna specifically designed for the rail industry. Its rugged weatherproof enclosure provides protection from harsh environmental conditions encountered on railroad tracks. The AA3233 Rail Antenna is mounted between the track rails. The antenna's optimal performance is achieved when used with the Amtech®-brand AT5110 Transportation Tag mounted to the underside of rail vehicles. The antenna operates with TransCore's AR2200 Radio Frequency (RF) Module.

The AA3233 Rail Antenna has a pattern that is designed to read the AT5110 Transportation Tag at close distances of 17.7 to 35.4 inches (45 to 90 centimeters) and at high speeds of 74.56 miles per hour (120 kilometers per hour).

The AA3233 Rail Antenna is not provided with mounting hardware for final installation. The mounting block and required hardware must be supplied by the systems integrator or installer. The figure on the back of this sheet illustrates the recommended mounting of this antenna.

AA3233 Rail Antenna

COMMUNICATIONS

Frequency Range
902 to 928 MHz

Gain
10 dBi

Polarization
Linear

VSWR
< 2.0:1

Impedance
50 ohms nominal

HARDWARE FEATURES

Connector
N-type female inside waterproof box

PHYSICAL

Antenna

Dimensions
Size: 26.9 x 2.3 x 11.25 in
(68.8 x 5.9 x 28.8 cm)
Overall Length: 34 in (85.4 cm)

Junction Box

Dimensions
Size: 13.5 x 7 x 4.4 in
(34.6 x 17.9 x 11.2 cm)

Enclosure

Weatherproof radome

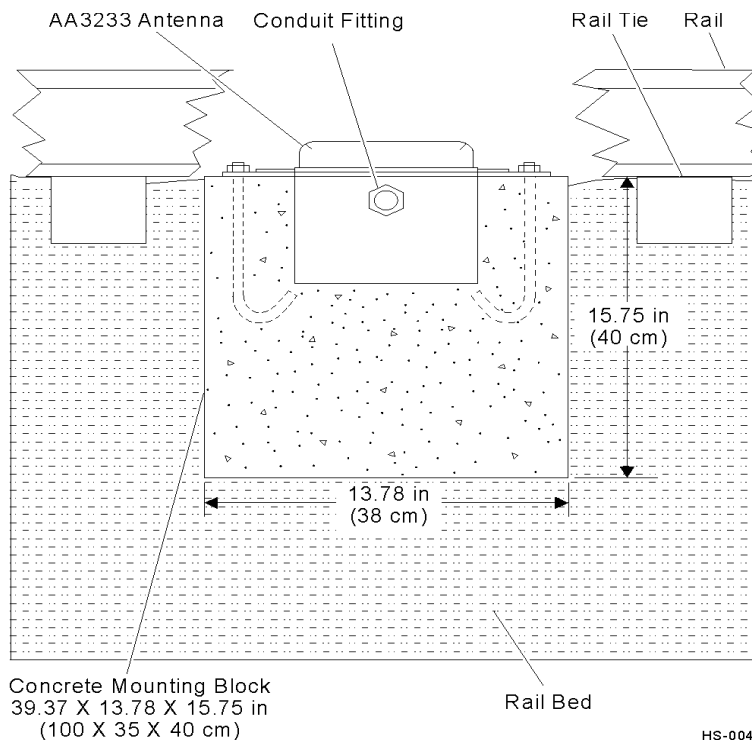
ENVIRONMENTAL

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

Humidity
100% condensing

Vibration Tolerance
4 Grms, 5 to 500 Hz

Shock Tolerance
30 g x 15 ms



HS-0042



For product information call: 1.800.923.4824 or 972.733.6600 (outside the U.S.) Fax 972.733.6486

www.transcore.com

© 2003 TC IP, Ltd. All rights reserved. TRANSCORE and AMTECH are registered trademarks of TC IP, Ltd., and are used under license. All other trademarks listed are the property of their respective owners. Contents subject to change. Printed in the U.S.A.