

AA3233

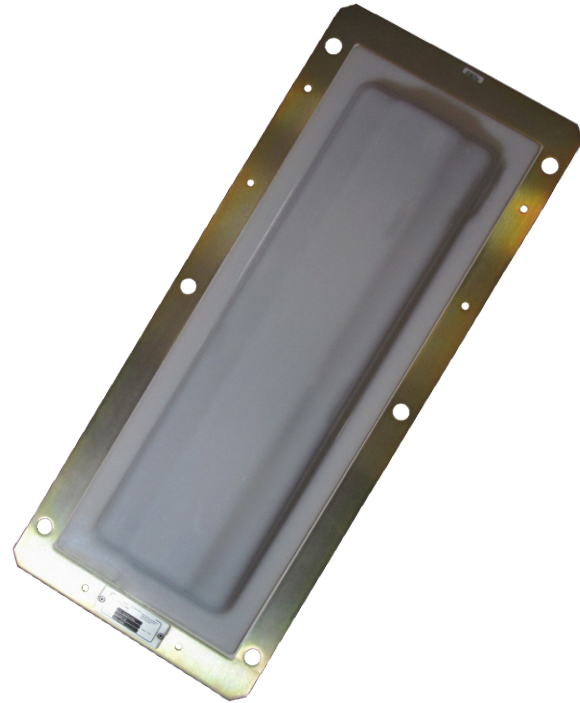
On-Board Heavy Rail Antenna

TransCore's AA3233 915MHz Heavy Rail Antenna is a rugged, reliable antenna specifically designed for mounting to train undercarriages.

Constructed for high shock and vibration environments, the IP65/67 rugged weatherproof enclosure provides protection from harsh environmental conditions encountered in railroad applications.

The AA3233 is available with or without an integrated check tag. When paired with TransCore's AT5000-series transportation tags, the AA3233 Heavy Rail Antenna can read rail transponders at speeds up to 75 mph (120km/hr).

The AA3233 includes a strain relief kit to provide better coaxial cable durability when used in bogie mount applications.



Features

- ▶ Constructed for high shock and vibration environments
- ▶ IP65/67 rugged weatherproof enclosure
- ▶ Available with or without integrated check tag
- ▶ Corrosion and chemical resistant
- ▶ Strain relief kit for high vibration applications

Applications

- ▶ Train positioning
- ▶ Rail Automatic Equipment Identification (AEI)

AA3233 On-Board Heavy Rail Antenna

COMMUNICATIONS

Frequency Range

902 to 928MHz

Gain (peak, near field)

10 dBi

Polarization

Linear, parallel with longer side

VSWR

<2.0:1

Impedance

50 ohms nominal

Beamwidth

E-Plane: 33°

H-Plane: 80°

HARDWARE FEATURES

Connectors

Antenna: right angle N-type female

Checktag option: receptacle, jam nut

PHYSICAL

Dimensions

Size: 68.2 x 28.6 x 8.7cm (26.9 x 11.3 x 3.4in)

Weight: 7.64 kg (16.4 lbs)

Enclosure

IP65/67

ENVIRONMENTAL

Operating Air Temperature

Antenna: -40°C to 80°C (-40°F to +176°F)

Checktag option: -40°C to +50°C (-40°F to +122°F)

Humidity

EN60068-2-30 Variant 1

Vibration Tolerance

AREMA Part 11.5.1 Class G & H

EN 61373:2010 Category 1B & 2

4 G_{RMS} 5 to 500 Hz

Shock Tolerance

AREMA Part 11.5.1 Class G & H

EN 61373:2010 Category 1B & 2

30 G peak x 18 ms

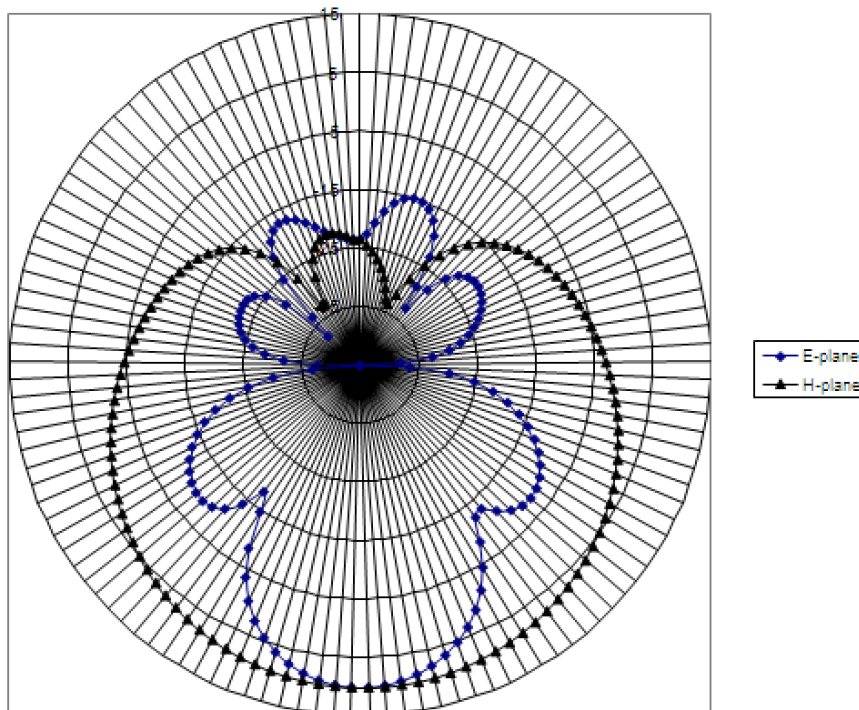
MODEL PART NUMBERS

12-3233-004

AA3233 On-Board Heavy Rail Antenna with Integrated Check Tag

12-3233-005

AA3233 On-Board Heavy Rail Antenna



Antenna Field Pattern

For more information:

Sales Support

800.923.4824

Technical Support

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transcore.com

