## Low Profile Wideband Rail Antenna

Rail Antenna

PCT-RSA-160, PCT-RSA-220



#### **Description**

Rugged and tough for railroad applications, this antenna is esigned to meet stringent AAR environmental standards.

#### **Frequencies**

- 158-163 MHz
- 217-233 MHz

#### Features

- Versatile may be mounted on locomotive, crew car, or other rugged vehicles
- Rugged hard coat anodized fully welded aluminum construction
- Low-profile only approximately 4.4 inches tall
- Field tunable optimizes performance in various mounting conditions
- Two-hole stud mount easy installation







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#### Rail Antenna

The rugged PCTEL<sup>®</sup> PCT-RSA directional antennas are designed to be roof mounted on locomotive, crew car, or other railroad vehicles exposed to severe vibration and harsh environmental conditions.

#### **Features**

- Versatile may be mounted on locomotive, crew car, or other rugged vehicles
- Rugged hard coat anodized fully welded aluminum construction
- Low profile approximately 4.4 inches tall
- Field tunable optimizes performance in various mounting conditions
- Easy of installation Two-hole stud mounting
- AAR compliant design

#### **Applications**

• Roof mounting on locomotives, crew cars and other railroad vehicles

#### Certifications





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#### **Standard Configuration**

Model	Cable	Connector	Mount	
PCT-RSA-160	Sold separately	Type N Female	Through-hole stud mounting for 1-inch holes	
PCT-RSA-220	Sold separately	Type IN Female		

#### **Electrical Specifications – Band Specific**

Model	Frequency Range	Gain*	VSWR	Average Power	Nominal Impedance	Polarization
PCT-RSA-160	158-163 MHz	2 dBi	< 1.5:1	100 watts	50 ohms	Vertical, linear
PCT-RSA-220	217-223 MHz					

#### **Mechanical and Environmental Specifications**

Model	Dimensions (L x H)	<b>Temperature Range</b>	Antenna Material	
PCT-RSA-160	15.78 L x 4.32 H in (40.08 x 10.9 cm)	-40°C to +85°C	Aluminum, black hard coat anodized	
PCT-RSA-220	6.81 L x 4.32 H in (17.2 x 10.9 cm)**	-40 C 10 +85 C		

# For more information about this product contact your sales representative or visit > pctel.com/antenna-products

#### **Solving Complex Wireless Challenges**

PCTEL is a leading global provider of wireless technology, including purpose-built Industrial IoT devices, antenna systems, and test and measurement products. Trusted by our customers for 29 years, we solve complex wireless challenges to help organizations stay connected, transform, and grow.



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