Low-Profile Wideband Rail Antennas

The PCT-RSA omnidirectional antennas are designed to survive rugged applications and can be roof mounted on locomotive, crew car, or other railroad vehicles exposed to severe vibration and other tough environmental conditions.

PCT-RSA-220

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 Mounting - easy install design
- AAR compliant design

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 N Female	Through-hole stud mounting for 1-inch holes

ELECTRICAL SPECIFICATIONS - RF ANTENNA

Model	Frequency Range	Gain*	VSWR	Average Power	Nominal Impedance	Polarization
PCT-RSA-160	158-162 MHz	2 dBi	< 1.5:1	100 watts	50 ohms	Vertical, linear
PCT-RSA-220	217-223 MHz	2 dBi	< 1.5:1	100 watts	50 ohms	Vertical, linear

MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)

Model	Dimensions	Temperature Range	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 to +85°C	Aluminum, black hard coat anodized

* Gain is ground plane dependent; more gain can be achieved with larger ground plane. ** Specified height is height above mounting surface.