

471 Brighton Drive | Bloomingdale IL | 60108



# **Bi-Directional Train Top Antenna**

The 74-133201-01 bi-directional antenna is designed to survive high vibration rail installations, including roof mounting on locomotive and passenger cars.

#### **Features**

- Dual feed, dual slant  $\pm$  45°, linear polarization
- Designed for metallic or non-metallic roof mounting, no ground plane required
- Extremely rugged purpose built for rail and metro applications
- Symmetrical patterns, maintains same pattern performance over each polarization
- High port-to-port performance correlation
- Designed to meet EN50155 & AAR certification requirements



74-133201-01

STANDARD CONFIGURATION								
Model	Cable	Connector	Mount					
74-133201-01	Sold Separately	OMA Female	Through-hole stud mounting for 1-inch holes					

ELECTRICAL SPECIFICATIONS - RF ANTENNA										
Gain* Typical VSWR Bandwidth		Beamwidth (Free Space, Non-Metallic Ground Plane)	Beamwidth (Ground Plane Mounted Peformance)	Port-to-Port Isolation	Nominal Impedance	Polarization				
10-13 dBi*	<2:1 (max 2.5:1)	4.9-5.9 GHz	H-Plane 42° E-Plane 28°	H-Plane 39° E-Plane 21°	> 22 dB	50 ohms	Dual Slant 45°, Linear			

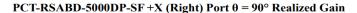
MECHANICAL & ENVIRONMENTAL SPECIFICATIONS (ALL MODELS)									
Dimensions	Weight	Temperature Range	Housing Antenna Material	Ingress Protection					
8.3 x 5.5 x 3.3 inches (210 x 140 x 85 mm)	2.7 lbs	-40°C to +85°C	Aluminum, hard coat anodized	IP56					

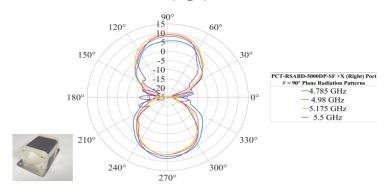




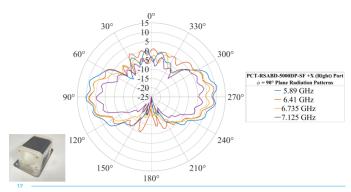
# **Radiation Patterns**



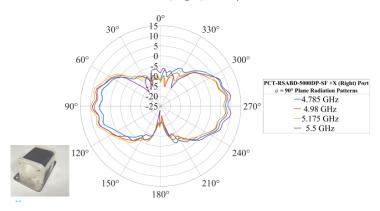




### PCT-RSABD-5000DP-SF +X (Right) Port $\phi = 90^{\circ}$ Realized Gain



#### PCT-RSABD-5000DP-SF +X (Right) Port $\phi = 90^{\circ}$ Realized Gain



## PCT-RSABD-5000DP-SF +X (Right) Port $\theta = 90^{\circ}$ Realized Gain

