



## Product Description

The CP16005 Panel Antenna is a right-hand circularly polarized (RHCP) antenna engineered for dependable communication in mining environments where traditional linear-polarized antennas often fail.

Operating in the 134–185 MHz frequency range, this antenna is designed to overcome the challenges of multipath interference caused by reflections off metal surfaces, rock walls, and heavy equipment. By leveraging circular polarization, it ensures stable signal transmission, reduces dead zones, and delivers consistent coverage regardless of antenna orientation.

## General Specifications

Model Name	CP16005
Part Number	99360501
Antenna Type	Panel
Radiation Pattern	Directional
Color	Black, Gloss finish (RAL 9005)
Compliances	RoHS, REACH

## Electrical Specifications

Frequency Range	MHz	134 - 185
Gain	dBic	5.5 @ 170 MHz
Polarization		RHCP
VSWR	Max	2:1
Impedance	$\Omega$	50
Axial Ratio	dB	5.1 @ 145 MHz
Front/Back Ratio Min.	dB	11 @ 162 MHz
HPBW	°	82 @ 162 MHz

## Mechanical Specifications

Length	in (mm)	23.1 (587)
Weight	lbs. (kg)	16 (7.3)
Ground Plane Diameter	in (mm)	23.8 x 23.8 (605 x 605)
Connector Type		N-Type (Female)
Number of Connectors		1

## Environmental & Structural Specifications

Operating Temperature	°F (°C)	-40 to 167 (-40 to 75)
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## Mounting Specifications

Mount Type		Mast
Mast OD	in (mm)	1.25 - 1.5 (32 - 38)

## Product Features

- **Circular Polarization, reduces multipath interference and reflection loss.**
- **Maintains reliable performance regardless of antenna alignment.**
- **Rugged & Low Maintenance, built for durability in harsh environments**