



GPS+ Combination Antennas with High Rejection Technology

PCTEL's Max-Matics™ GPS+ antennas have been designed to provide maximum performance and versatility for telematics applications, including fleet monitoring and asset tracking.

By combining the high performance of a GPS antenna with the flexibility to add virtually any PCTEL permanent mount compatible mobile antenna, the GPS+ provides reliable, real-time wireless voice and data coverage for fleet monitoring applications. This antenna is designed to facilitate installation. It includes all necessary hardware for "blind" installations when removal of the vehicle's headliner is not desired.

Its precise performance and ease of installation provides outstanding value and flexibility for the most demanding wireless mobile applications.



GPSPSM

Features

- Combination GPS/mobile antenna design provides GPS tracking coverage and voice/data wireless coverage capabilities
- UV-stable housing features attractive industrial design

STANDARD CONFIGURATION

| Model | Cable | Connector | Mount | Mobile Antenna Mount Interface |
|--------|--|--------------------------------------|------------------------------|--------------------------------|
| GPSPSM | 17' RG-174 (GPS antenna side) 17' RG-58/U (mobile antenna side) | SMA Male (GPS) SMA Male (Mobile)* | 3/4-inch hole permanent stud | 1-1/8"-18 thread mount |

ELECTRICAL SPECIFICATIONS - GPS ANTENNA

| Frequency Band | Amplifier Gain | Axial Ratio | Polarization | Out of Band Rejection |
|----------------|--------------------------|----------------------|---------------------|-----------------------|
| 1575.42 MHz | @ 3.0VDC: 26dB (typical) | < 3.0 dB @ boresight | Right hand circular | > 40 dB @ ± 50 MHz |

ELECTRICAL SPECIFICATIONS - GPS ANTENNA, continued

| Filtering | DC Current | DC Voltage | Noise Figure | Output VSWR | Nominal Impedance |
|---------------------------------|--|-----------------------------|--------------|----------------|-------------------|
| Hybrid (including pre-selector) | 20 mA Nominal; < 30 mA @ -40°C to +85°C | 3.5-5V (internal regulated) | 1.8 typical | 1.5:1, typical | 50 ohms |



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MECHANICAL & ENVIRONMENTAL SPECIFICATIONS

| Dimensions | Housing Material | Temperature Range | Burn-out Protection |
|--|-------------------------------|-------------------|--|
| 2.25 W x 4.25 L x 1.25 H in (5.7 x 10.8 x 3.1 cm) | Black UV-Stable Polycarbonate | -40°C to +85°C | Protected from damage by RF signals when the power received by the antenna is no greater than +17 dBm, maximum |

To order, please follow the part number configuration:

| Mount Type | GPS Connector | Mobile Antenna Connector |
|---|---|---|
| <p><i>Begin with this part number:</i> GPSPSM</p> | <p><i>Specify your GPS connector of choice by adding the connector abbreviation from the list below to the part number:</i></p> <ul style="list-style-type: none"> Male TNC (MC) Male SMA (MSMA) MCX Right angle MMCX plug (RAMMCX) Right angle SMB plug (RASBP) | <p><i>Choose among any of the connector options available below for the RG-58 cable:</i></p> <ul style="list-style-type: none"> Reverse Polarity SMA (MSMARP) Mini-UHF (PL) BNC (BN) TNC (C) Male N (NM) Male SMA (MSMA) Right Angle Male SMA (RAMSMA) |