GPS-C 2R/GSM/FM/...

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
 - Black-chromed, conical stainless steel whip.
 - Easily removable whip for car wash.
- GPS-antenna for fixed installations.
 - Full hemispherical coverage.
 - Built-in high gain, low noise amplifier.
 - Right-Hand Circularly Polarized antenna (RHCP).
 - 5 V supply voltage (3 V respectively 12 V available on request).
 - DC supply via RF-connector.
 - Sturdy, general-purpose 1/4 λ antenna in professional quality.





ORDERING DESIGNATIONS

| ТҮРЕ | PRODUCT NO. |
|-----------------------------------|-------------|
| GPS-C 2R/GSM/FM/ | 132000063 |
| TRI 2/900-1800-UMTS/FM (optional) | 200000792 |

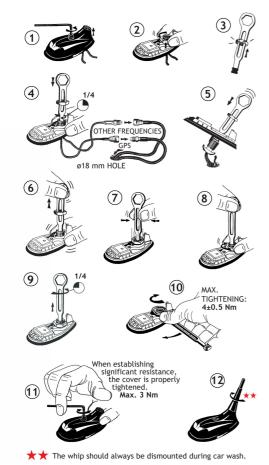
Can also be supplied factory-cut for the required frequency (between 144 - 175 MHz).

SPECIFICATIONS FOR WHIP

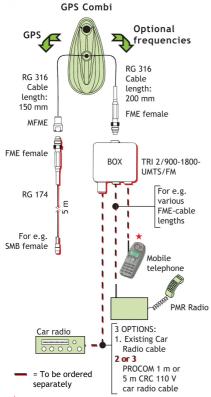
| GPS-C 2R/GSM/FM/ |
|--|
| $1/4 \lambda$ mobile antenna |
| Tunable by cutting within: 144 – 175 MHz also receives EGSM (880 - 960 MHz) and FM-radio (88 – 108 MHz) |
| Nom. 50 Ω |
| Vertical |
| Approx. 0 dB (acc. to EIA RS-329-1) for the 160 MHz band |
| 25 W |
| |
| Whip: Black-chromed, conical stainless steel Black-chromed brass Spring: Black-chromed stainless steel |
| Black |
| Approx. 450 mm (dep. on frequency) |
| Approx. 60 g (dep. on frequency) |
| On the GPS-Combi mount |
| |

SPECIFICATIONS FOR GPS-COMBI MOUNT

| ELECTRICAL GENERAL SPECIFICATIONS | | |
|------------------------------------|---|--|
| MODEL | GPS-COMBI MOUNT | |
| ANTENNA TYPE | Active patch antenna | |
| FREQUENCY | 1575 MHz | |
| IMPEDANCE | Nom. 50 Ω | |
| POLARISATION | Circular right-hand | |
| COVERAGE | Hemispherical | |
| GAIN | 28 dBic in axial direction (typ.) | |
| CROSS- POLARISATION ATT. | > 10 dB (typ.) | |
| SELECTIVITY | > 45 dB down @ ± 45 MHz | |
| BUILT-IN AMPLIFIER | | |
| GAIN | > 30 dB (typ.) | |
| NOISE FIGURE | < 1 dB (typ.) | |
| P 1dB | Approx. +7 dBm | |
| SWR (output) | ≤ 2.0 | |
| SUPPLY VOLTAGE | 5 ± 0.5 VDC (3 V resp. 12 V on request) | |
| CURRENT CONSUMPTION | Approx. 25 mA | |
| MECHANICAL (ONLY FOR THE GPS-PART) | | |
| MATERIALS | Cu-nite brass Stainless steel Reinforced thermoplastic | |
| ANTENNA COLOUR | Black | |
| TEMP. RANGE | -35° C → +75° C | |
| CONNECTOR | FME (male for GPS) + FME (female for mobile antenna) | |
| RECOMMENDED INSTALL. TORQUE | 4 ± 0.5 Nm | |
| DIMENSIONS (H x L) | Approx. 30 x 89 mm | |
| ROOF THICKNESS | Max. 2.5 mm | |
| WEIGHT | Approx. 114 g | |
| MOUNTING | ø18.0 mm dia. hole for roof thickness up to 2.0 mm ø18.5 mm dia. hole for roof thickness 2.0 - 2.5 mm Tools for mounting included | |



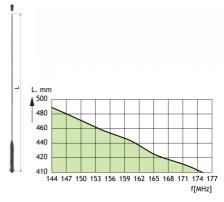
CABLE MOUNTING



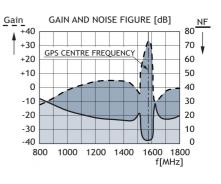
★ FME-Connector suitable for PMR Radio in question.

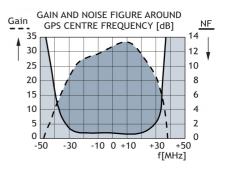
TUNING

The antenna should always be tuned using an SWR-meter. The cutting diagram below serves as a guide for this procedure.

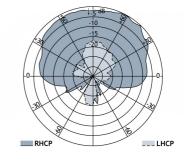


TYPICAL RESPONSE CURVES





VERTICAL RADIATION PATTERN



CE



PROCOM France S.A.R.L. se réserve le droit d'améliorer les spécifications sans préavis. 19/12/13

