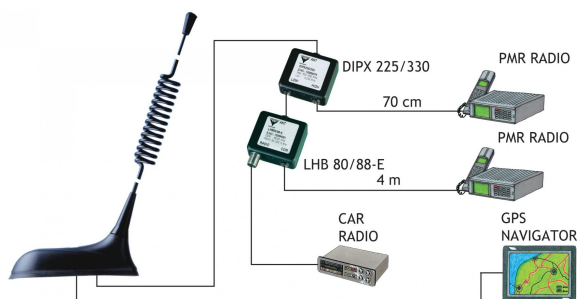


# GPS-C 4/70/FM

Collinear Mobile Antenna for the 80 MHz, 400 MHz and FM Bands

## DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
  - Mobile antenna with 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 Circular Polarization antenna (RHCP).
  - 5 V supply voltage (3 V respectively 12 V available on request).
  - DC supply via RF-connector.



## ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
GPS-C 4/70/FM	132000059

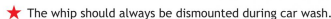
## SPECIFICATIONS FOR WHIP

ELECTRICAL	
MODEL	GPS-C 4/70/FM
ANTENNA TYPE	Collinear mobile whip antenna
FREQUENCY	80 MHz: 83 - 86 MHz 400 MHz: 380 - 410 MHz FM band: 88 - 108 MHz
SWR	80 MHz: $\leq 2.0$ 400 MHz: $\leq 1.5$
IMPEDANCE	Nom. 50 $\Omega$
POLARIZATION	Vertical
GAIN	80 MHz: Approx. 0 dB (acc. to EIA RS-329-1) 400 MHz: 4 dB (acc. to EIA RS-329-1)
MAX. POWER	25 W
MECHANICAL	
MATERIALS	Black-chromed conical, stainless steel Black-chromed brass
COLOUR	Black
HEIGHT	640 mm
WEIGHT	65 g
MOUNTING	On the GPS-Combi mount

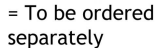
## SPECIFICATIONS FOR GPS-COMBI MOUNT

ELECTRICAL GENERAL SPECIFICATIONS	
MODEL	GPS-COMBI MOUNT
ANTENNA TYPE	Active patch antenna
FREQUENCY	1575 MHz
IMPEDANCE	Nom. 50 $\Omega$
POLARIZATION	Circular right-hand
COVERAGE	Hemispherical
GAIN	28 dBic in axial direction (typ.)
CROSS-POLARIZATION ATT.	> 10 dB (typ.)
SELECTIVITY	> 45 dB down @ $\pm 45$ MHz
BUILT-IN AMPLIFIER	
GAIN	> 30 dB (typ.)
NOISE FIGURE	< 1 dB (typ.)
P <sub>1dB</sub>	Approx. +7 dBm
SWR (output)	$\leq 2.0$
SUPPLY VOLTAGE	5 $\pm$ 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 $\rightarrow$ +75° C
CONNECTOR	FME (male for GPS) + FME (female for mobile antenna)
RECOMMENDED INSTALL. TORQUE	4 $\pm$ 0.5 Nm
DIMENSIONS (H x L)	Approx. 30 x 89 mm
ROOF THICKNESS	Max. 2.5 mm
WEIGHT	Approx. 114 g
MOUNTING	$\varnothing$ 18 mm dia. hole for roof thickness up till 2.0 mm $\varnothing$ 18.5 mm dia. hole for roof thickness 2.0 - 2.5 mm Tools for mounting included

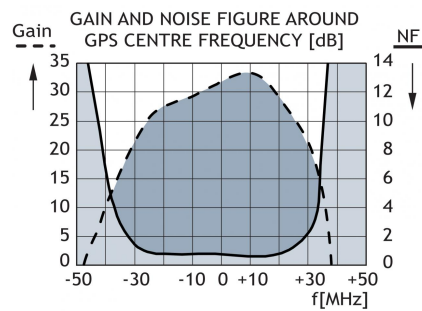
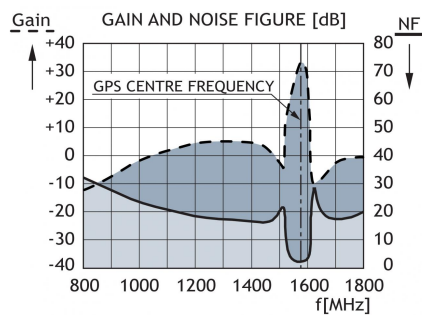
## MOUNTING INSTRUCTIONS



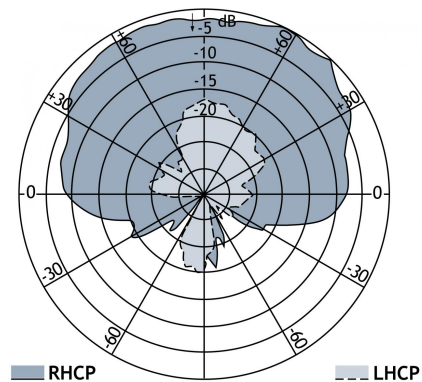
## CABLE MOUNTING



## TYPICAL RESPONSE CURVES



## VERTICAL RADIATION PATTERN



PROCOM France S.A.R.L. se réserve le droit  
d'améliorer les spécifications sans préavis.  
22/08/13