

GPS Antenna with Whip with Shock Spring for the 160 MHz, 450 MHz and FM Bands

DESCRIPTION

- > External antenna whip mounted on the GPS-Combi mount.
 - > Black-chromed, conical stainless steel whip.
 - Sturdy, general-purpose ¼ λ antenna in professional quality.
 - Easily removable whip for cleaning in car-washing machine.
- > 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.

CONNECTION DIAGRAM



SPECIFICATIONS

Electrical	
Model	GPS-C 2R/70/FM
Frequency	2 m: 145 MHz 70 cm: 435 MHz FM band: 88-108 MHz
Antenna Type	Mobile antenna
Max. Input Power	25 W
Polarisation	Vertical
Impedance	50 Ω
VSWR	< 1.3:1 @ f. res.
Bandwidth	2 m: 20 MHz 70 cm: 40 MHz @ VSWR ≤ 2.0

Mechanical	
Materials	Whip: Black-chromed, conical stainless steel Black-chromed brass Mount: Weather- and shockproof plastics Black-chromed brass
Colour	Black
Height	492 mm / 19.37 in.
Weight	0.05 kg / 0.11 lb.
Mounting	On the GPS-Combi mount



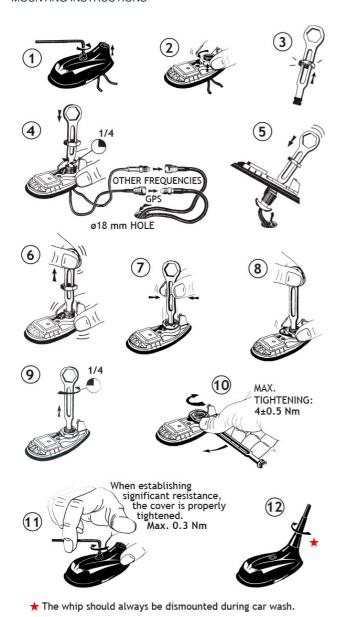
P1dB (GPS Amplifier)	Approx. 7 dBm
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Coverage (GPS)	Hemispherical
Gain (GPS)	28 dBic in axial direction (typ.)
Connection(s) (GPS)	FME(m) (male for GPS) + FME(f) (female for mobile antenna)
Mounting (GPS)	ø18.0 mm dia. hole for roof thickness up to 2.0 mm ø18.5 mm dia. hole for roof thickness 2.0 - 2.5 mm Tools for mounting included
Antenna Type (GPS)	Active patch antenna
Noise Figure (GPS Amplifier)	< 1 dB (typ.)
Cross Polar Discrimination (GPS)	> 10 dB (typ.)
Gain (GPS Amplifier)	> 30 dB (typ.)
VSWR (GPS Amplifier)	< 2.0:1
Selectivity (GPS)	> 45 dB down @ ± 45 MHz
Frequency (GPS)	1575 MHz
Weight (GPS)	Approx. 0.114 kg / 0.25 lb.
Power Supply (GPS)	5 ± 0.5 V DC (3 V resp. 12 V on request)
Current Consumption (GPS Amplifier)	0.025 mA
Dimensions (GPS)	Approx. 30 x 89 mm / 0.9 x 2.9 in.
Max. Roof Thickness (GPS)	2.5 mm / 0.10 in.
Colour (GPS)	Black
Polarisation (GPS)	RHCP
Impedance (GPS)	50 Ω
Materials (GPS)	Cu-nite brass, Stainless steel, Reinforced thermoplastic

ORDERING

Model	Product No.
GPS-C 2R/70/FM	132000061
A	
Accessories	
LH 108/136-2G (optional)	200000762

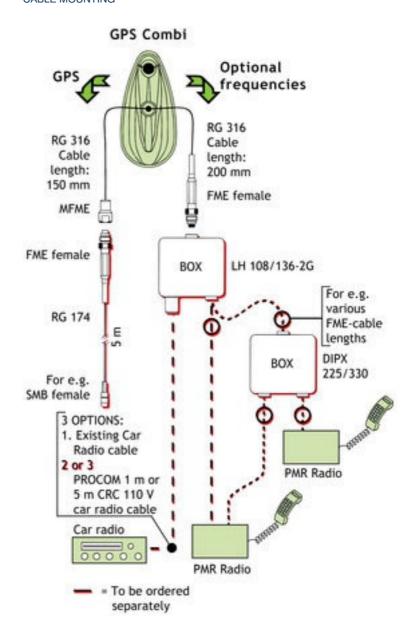


MOUNTING INSTRUCTIONS



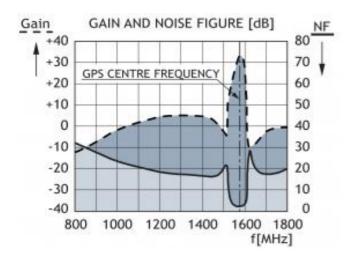
Do not use sealer on rubber gasket or other places.

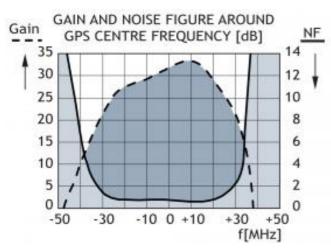
CABLE MOUNTING



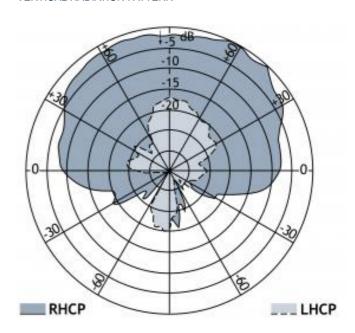
AMPHENOL PROCOM

TYPICAL RESPONSE CURVES





VERTICAL RADIATION PATTERN



EU AND UK DECLARATION OF CONFORMITY

Hereby Amphenol Procom declare that the product type GPS-C 2R/70/FM is in compliance with EU Directive 2014/53/EU and

the UK Radio Equipment Regulations 2017 (S.I. 2017 No. 1206). The full text of the Declaration of Conformity is available at:

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