

colinear 4dB Mobile Antenna for the 450 MHz Band

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
- > GPS-antenna for fixed installations.
- > 4 dB mobile antenna with conical stainless steel whip.
- Receiving FM-radio when using a Diplexer (LH 108/136-2G).
- > Easily removable whip for car wash.
- > Full hemispherical coverage.
- > Built-in high-gain, low-noise amplifier.
- > Right-hand circular polarisation (RHCP).
- > 5 V supply voltage (3 V respectively 12 V available on request).
- > DC supply via RF-connector.

ORDERING

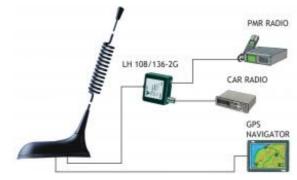
Туре	Product No.	Frequency
GPS-C MU 4/FM/s	132000055	380 - 410 MHz
GPS-C MU 4/FM/f	132000052	406 - 430 MHz
GPS-C MU 4/FM/I	132000101	420 - 450 MHz
GPS-C MU 4/FM/h	132000053	440 - 470 MHz

SPECIFICATIONS

Model	GPS-0	C MU 4/FM/	GPS-COMBI MOUNT	
Frequency		s within 380-470 MHz eceiving FM-radio (88 - 1	108 MHz)	
Antenna Type	Colline	ear mobile antenna	Active patch antenna	
Max. Input Power	25 W			
Polarisation	Vertica	al	Circular	
Pattern Type	Hemis	pherical		
Impedance 50 Ω			50 Ω	
VSWR < 1.3:1		@ f.res. for the 450 MHz band		
Bandwidth	ndwidth > 30 N		1Hz @ SWR < 2.5	
Gain (EIA RS-329-1) 4 dB (a		acc. to EIA RS-329-1) for the 450 MHz band		
Cross Polar Attenuation > 10 dl		B (typ.)		
Selectivity	> 45 d	> 45 dB down at +/- 45 MHz		
Mechanical				
Connection(s)	FME (male	FME (male for GPS) + FME (female for mobile antenna)		
Materials	Black-chro	Black-chromium-plated stainless steel		
Colour	Black	llack		
Max. Roof Thickness	2.5 mm / 0	2.5 mm / 0.10 in.		
Height	590 mm / 2	590 mm / 23.23 in.		
Weight	0.065 kg /	.065 kg / 0.14 lb		
Mounting	On the GP	n the GPS-Combi mount		
GPS Antenna				
P1dB (GPS Amplifier)		Approx. +7 dBm		
Gain (GPS)		28 dBic in axial direction (typ.)		
Noise Figure (GPS Amplifier)		< 1 dB (typ.)		
Gain (GPS Amplifier)		> 30 dB (typ.)		
VSWR (GPS Amplifier)		< 2.0:1		
Operating Temperature Range (GPS)		-35 to 75 °C		
		4 ± 0.5 Nm		
(GPS) Installation Torque (GPS)		4 ± 0.5 Nm 1575 MHz		
(GPS) Installation Torque (GPS) Frequency (GPS)				
(GPS)		1575 MHz	. 12 V on request)	
(GPS) Installation Torque (GPS) Frequency (GPS) Weight (GPS) Power Supply (GPS) Current Consumption (GF		1575 MHz 0.114 kg / 0.25 lb	. 12 V on request)	
(GPS) Installation Torque (GPS) Frequency (GPS) Weight (GPS)		1575 MHz 0.114 kg / 0.25 lb 5 ± 0.5 VDC (3 V resp	. 12 V on request)	
(GPS) Installation Torque (GPS) Frequency (GPS) Weight (GPS) Power Supply (GPS) Current Consumption (GF Amplifier)		1575 MHz 0.114 kg / 0.25 lb 5 ± 0.5 VDC (3 V resp 0.025 mA	. 12 V on request)	



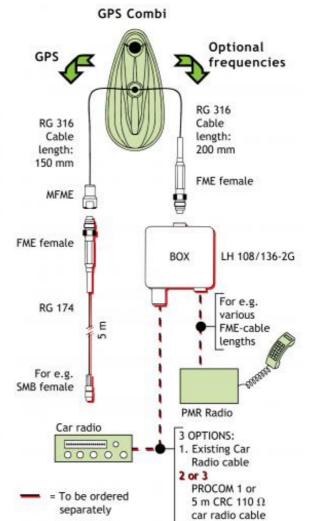
ADDITIONAL DATA



MOUNTING INSTRUCTIONS



Do not use sealer on rubber gasket or other places.



TYPICAL RESPONSE CURVES

VERTICAL RADIATION PATTERN

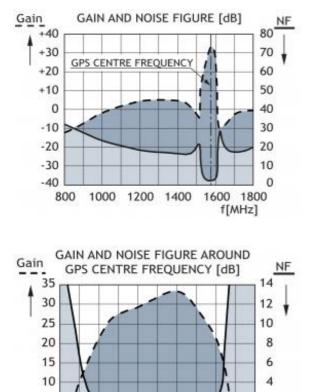
CABLE MOUNTING

5 04

-50

-30





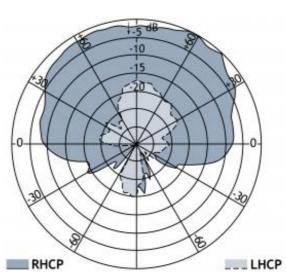
-10 0 +10

2

0

+50 f[MHz]

+30



X