

colinear Mobile Antenna for the 4 m, 2 m, FM and TETRA Bands

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
 - Polyethylene-covered flexible 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.
 - Matching unit (BBMU) included.
 - Matching unit without FM (PH-BOS3 BBMU) available.

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
Installation Torque (GPS)	4 ± 0.5 Nm
Frequency (GPS)	1575 MHz
Weight (GPS)	0.114 kg / 0.25 lb
Power Supply (GPS)	5 ± 0.5 VDC (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.
Colour (GPS)	Black
Materials (GPS)	Cu-nite brass, Stainless steel, Reinforced thermoplastic

ORDERING

Model	Product No.	Description
GPS-C 4/2/TETRA-FM-S BBMU/PH	132000106	MAX.ROOF THICKNESS 2.5 mm
GPS-C 4/2/TETRA-FM-S BBMU/PH/7mm	132000113	ROOF THICKNESS: 3.5 - 7.5 mm
PH-BOS3 BBMU	132000172	



SPECIFICATIONS

Electrical		
Model	GPS-C 4/2/TETRA-FM-S BBMU/PH/...	GPS-COMBI MOUNT
Frequency	4 m: 74.2 - 87.5 MHz 2 m: 167.5 - 174 MHz 70 cm: 380 - 410 MHz FM band: 93 - 108 MHz (Limited in 88 - 93 MHz)	
Antenna Type	Collinear mobile antenna	Active patch antenna
Max. Input Power	15 W	
Polarisation	Vertical	Circular
Pattern Type	Hemispherical	
Impedance	50 Ω	50 Ω
VSWR	74.2 - 77.7 and 84 - 87.5 MHz: < 2.5:1 167.5 - 169.5 and 172 - 174 MHz: < 2.0:1 380 - 400 MHz: < 2.0:1 400 - 410 MHz : <2.5:1 880 - 960 MHz: < 2.5:1 1710 - 1880 MHz: < 4.0:1	
Gain (EIA RS-329-1)	4 m: approx. -8 dB 2 m: approx. -4 dB 70 cm: approx. -3.5 dB (acc. to EIA RS-329-1) 880 - 960 MHz: approx. -10 dB / -12 dB 1710 1880 MHz: approx. -7 dB / -9 dB	
Cross Polar Attenuation	> 10 dB (typ.)	
Selectivity	> 45 dB down @ +/- 45 MHz	

Mechanical	
Connection(s)	FME (male for GPS) + FME (female for mobile antenna)
Materials	Whip: Glass fibre whip with copper wire winding, polyethylene-covered Black-chromed brass Spring: Black-chromed stainless steel
Colour	Black
Max. Roof Thickness	2.5 mm / 0.10 in.
Height	575 mm / 22.64 in.
Weight	0.06 kg / 0.13 lb
Mounting	On the GPS-Combi mount

VERTICAL RADIATION PATTERN

