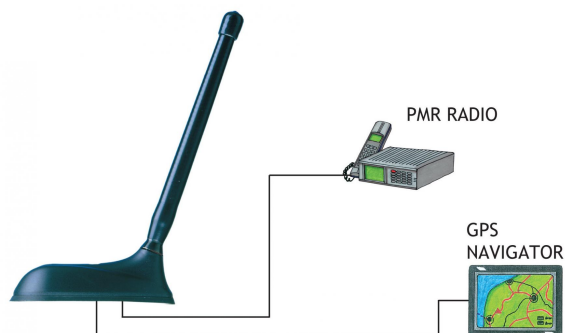


GPS-C HX 2/...

GPS Antenna with a $\frac{1}{4} \lambda$ Helical Antenna for the 160 MHz Band

DESCRIPTION

- External antenna whip mounted on the GPS-Combi mount.
 - Flexible, conical steel helix moulded in flexible thermoplastic rubber.
 - Reduced-size $\frac{1}{4} \lambda$ helical antenna 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.



ORDERING DESIGNATIONS

TYPE	PRODUCT NO.
GPS-C HX 2/...	132000049

When ordering, please state the required frequency (144 – 175 MHz).

SPECIFICATIONS FOR WHIP

ELECTRICAL	
MODEL	GPS-C HX 2/...
ANTENNA TYPE	Shortened $\frac{1}{4} \lambda$ helical antenna
FREQUENCY	Tunable by cutting within: 144 – 175 MHz
IMPEDANCE	Nom. 50 Ω
POLARIZATION	Vertical
GAIN	Approx. -3 dB (acc. to EIA RS-329-1)
MAX. POWER	10 W
MECHANICAL	
MATERIALS	Steel helix moulded in flexible thermoplastic rubber Black-chromed brass
COLOUR	Black
HEIGHT	Approx. 130 mm (dep. on freq.)
WEIGHT	Approx. 34 g (dep. on freq.)
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 Ω
POLARIZATION	Circular right-hand
COVERAGE	Hemispherical
GAIN	28 dB in axial direction (typ.)
CROSS-POLARIZATION 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 \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	$\varnothing 18.0$ mm dia. hole for roof thickness up to 2.0 mm $\varnothing 18.5$ mm dia. hole for roof thickness 2.0 - 2.5 mm Tools for mounting included

