



VHF, UHF AND GPS VEHICULAR ANTENNA

76.7 ÷ 79.2MHz, 380 ÷ 445MHz and 1575.42MHz

17100102K
GT FLEX
VUT-G

POLOMARCONI.IT



POLOMARCONI offers a very wide range of wireless products.
Our products can be tailored according to the customer's need.

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Electrical Specifications

Type (VHF)	1/4 λ
Frequency Band (MHz)	VHF: 76.7 ÷ 79.2 MHz UHF: 380 ÷ 445 MHz
Impedance (Ω)	50
VSWR (antenna mounted at 105mm from the short edge of 2000x1400mm metallic ground plane)	VHF/UHF: <2:1
Continuous Max. Power (W)	30
Polarization	linear
Gain (antenna mounted at 105mm from the short edge of 2000x1400mm metallic ground plane)	VHF: 0 dB over /4 monopole UHF: 0 dB over /4 monopole
Operation Temp. Range (°C)	-40° ÷ +70°

GPS

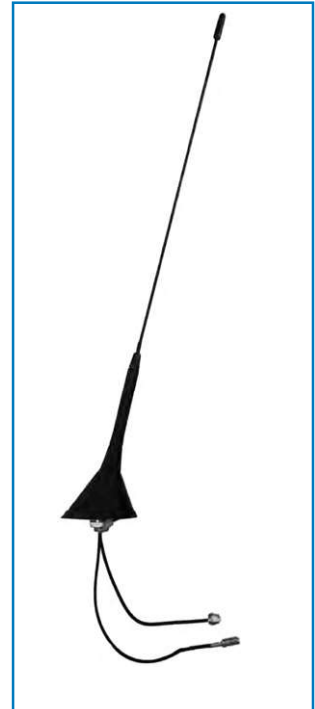
Type	Patch
Frequency Band GPS (MHz)	1575.42 ± 3
VSWR at resonant frequency	≤ 2
Polarization	RHCP
Gain (dBi)	1 min (70x70 ground plane)
Continuous Max Power (W)	30

LNA GPS

Gain (dB)	29 typ. (5 Vdc power supply)
Noise Figure (dB)	2 max. (5 Vdc power supply)
Attenuation (dB)	28 min. (@1575.42±100 MHz)
VSWR	≤ 2
Consumption current (mA)	30 max
Output impedance (Ω)	5
Operating voltage (Vdc)	3 ÷ 5

Duplexer Main Specifications

Frequency range (MHz)	Low port: 0-180 High port : 320-500
Input impedance (Ω)	50
Continuous Max. Power (W)	35
Insertion loss (dB)	0-180 MHz: ≤ 0,5 320-500 MHz: ≤ 0,7
Isolation	Low to high port: ≥ 30 dB
Operation Temp. Range (°C)	-40° ÷ +70°
Connectors	Ant.: TNC female Low Port: BNC Female High Port: BNC Female
Dimensions (mm)	84x134x32
Total weight (kg)	abt. 0,3
Materials	
Body material	Aluminium with SURTEC 650 treatment Silver plated
Connectors	brass



Mechanical Specifications

Type of connections	
Connector for VHF, UHF and GPS	see page 2
Length	see page 2
Extension cable	see page 2
Whip length (mm)	abt. 510 max
Total weight (kg)	abt. 0.3
Whip material	fiberglass





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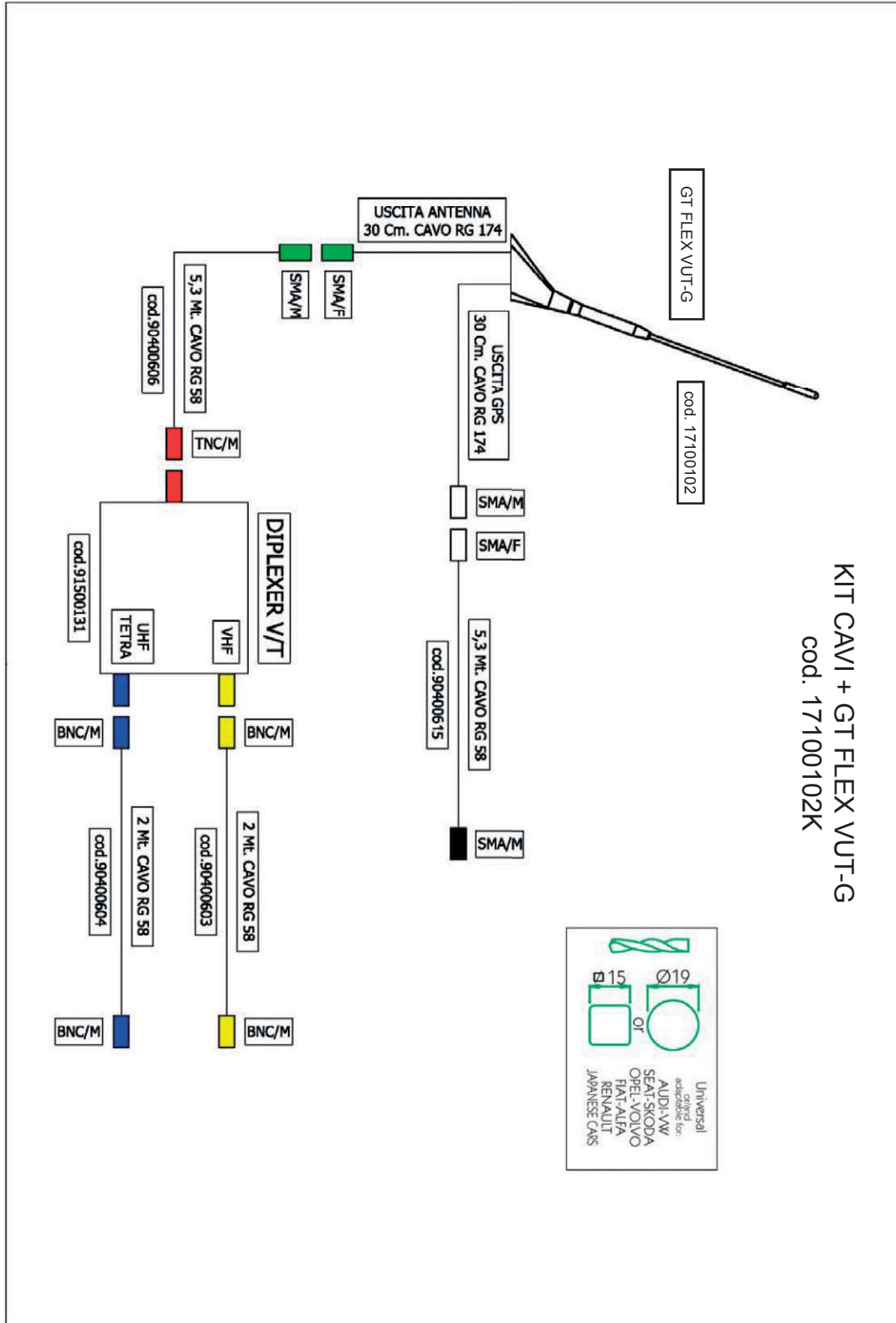
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