

BRANCHING UNIT UHF 4 TX AND 4 RX COMBINER

+ 2X 4WAYS GNSS RECEIVER + VSWR Meter Arrangement

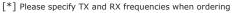
T06990705-121

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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		
Frequency band (MHz)		430 ÷ 470
Impedance (Ω)		50
VSWR (all ports)		≤ 1.5:1
[*] Duplex Spacing (MHz) (between Rx and Tx bandpass	center)	9.5
Tx - Tx spacing (MHz)		3
Rx - Rx spacing (MHz)		3
[**] Max Tx Power (W)		50
Max Rx CW Incident Power (de without damage	Bm)	+27
Max Rx Power working (dBm) in compression mode		+10
Tx Insertion Loss (dB)		≤ 10
Rx Gain (dB)	ANT – Rx Out	2 (+0, -1)
Input IP 3rd order (dBm)		≥ 18
Noise Figure (dB)	ANT – Rx Out	≤ 4.5
Power Supply (V _{DC})		10÷15
Isolation (dB)	Tx - Tx Rx - Rx ANT - Tx Tx - Rx or TX band)	≥ 60 ≥ 25 ≥ 47 ≥ 85
Current Consumption (mA)	@ 12 V _{DC}	≤ 300



 $^[\ ^{**}]$ No degradation with 4Tx @ 50W each. No Branching Unit damage in case of fully mismatched Antenna Output with 4Tx @50W CW

GNSS Receivers

Support GLONASS L1/L2/L3, BeiDou L1, GPS L1/L2/L5 Bands

[*] Output Supply (V_{DC}) on GNSS Antenna Connectors		+5 (max 50mA)
VSWR	ANT	≤ 2.3:1
VSWK	Rx_{i}	≤ 1.5:1
Rx Gain (dB)		4±2
LNA Noise Figure (dB)		≤ 3.2
Isolation (dB)	Rx - Rx Rx - ANT	≥ 25 ≥ 30
Input 1 dB compression point (dBm)		≥ - 10
Outputs		AC coupled

 $^{[\}ast]$ A condition of Short Circuit on GPS Antenna Input must not influence the other GPS Splitter (if present) nor on the LNA

Mechanical Specifications			
RF Connectors	$Tx_{_{i}}$, ANT $Rx_{_{i}}$ GNSS (ANT, RXi)	5 x Nf 4x SMAf 10x SMAf	
DC Connector	4 x 2	-pin PCB Header	
VSWR Data BUS		RJ45	
Dimensions	4U	× 19" × 462mm	
Weight (kg)		< 19	
Front Panel Colour		RAL 7031	

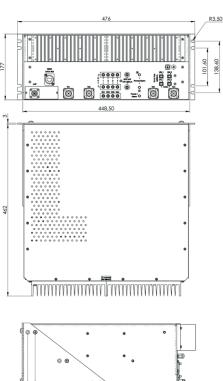




Environmental Specifications

Operating Temp. Range (°C)	0 ÷ +50
Storage Temp. Range (°C)	-40 ÷ +70

Dimensions (mm)



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Electric Schematics Upper 4 Ways Rx GNSS (OPT3) GPS ANT +5V_{DC} OUT wer 4 Ways Rx GNSS (OPT2) GNSS GPS ANT +5V_{DC} OUT +5V_{DC} rovided bay for customer's VSWR Meter (OPT4) 1/0 1 Vin 1 on I/O 1 ANT Vin 2 TEST IN/OUT 1/0 2 V/UHF ANT TX4

+2Tx Combiner (0PT1)

T06990705-X Y Z NUMBER OF TX 1=4TX NUMBER OF 4xRX **GNSS** receivers 0=No GNSS 1=4xGNSS receivers

ORDERING CODE

(default)

2=8xGNSS receivers

VSWR Meter Arrangement

(default)

(default) 0=No1=Yes

[***] T06990705 without suffix is default.

Example code: T06990705-121 "Branching Unit UHF 4 TX and 4 RX Combiner + 2x 4Ways GNSS receiver + VSWR Meter Arrangement"