BRANCHING UNIT VHF 4 TX AND 4 RX COMBINER + 2X 4WAYS GNSS RECEIVER + VSWR Meter Arrangement

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

PMR

T06990530-121

| Electrical Specifications | | | | |
|--|----------------------|--|--|--|
| Frequency band (MHz) | | 154 ÷ 165 | | |
| Impedance (Ω) | | 50 | | |
| VSWR (all ports) | | ≤ 1.5:1 | | |
| [*] Duplex Spacing (MHz) (between Rx and Tx bandpass center |) | 4 | | |
| Tx - Tx spacing (MHz) | | ≤ 1.5 | | |
| Rx - Rx spacing (MHz) | | ≤ 1.5 | | |
| [**] Max Tx Power (W) | | 50 | | |
| Max Rx CW Incident Power (dBm) without damage | | +27 | | |
| Max Rx Power working (dBm) in compression mode | | +10 | | |
| Tx Insertion Loss (dB) | | ≤ 10 | | |
| Rx Gain (dB) | ANT – Rx Ou | ut 2 (+0,-1) | | |
| Input IP 3rd order (dBm) | | ≥ 15 | | |
| Noise Figure (dB) | ANT – Rx Ou | ut ≤ 4.7 | | |
| Power Supply (V _{DC}) | | 10÷15 | | |
| Isolation (dB) (in Tx or Rx l | | ≥ 60 ≥ 25 ≥ 47 750 kHz ≥ 80 1.5 MHz ≥ 73 | | |
| Current Consumption (mA) | @ 12 V _{DC} | ≤ 300 | | |

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[*] Please specify TX and RX frequencies when ordering [**] 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 | |
| | 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 (dBn | n) | ≥ - 10 | |
| Outputs | | AC coupled | |

[*] 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-p | in PCB Header |
| VSWR Data BUS | | RJ45 |
| Dimensions | 4U × | 19″ × 462mm |
| Weight (kg) | | < 22 |
| Front Panel Colour | | RAL 7031 |

Made in Italy. We reserve the right to modify these data without any notice.

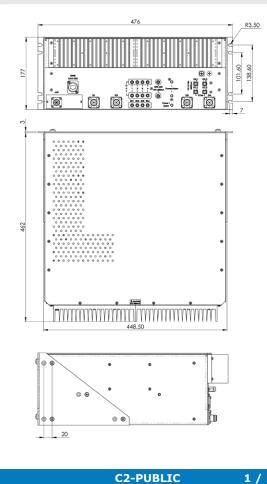




Environmental Specifications

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

Dimensions (mm)



Data Sheet Rev. 01 - 22/09/2023

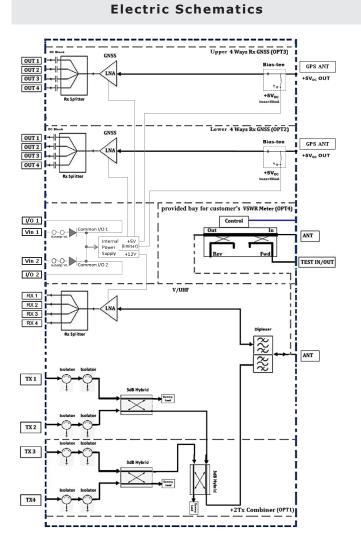
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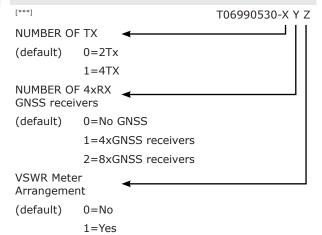
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ORDERING CODE



[***] T06990530 without suffix is default. Example code: T06990530-121 "Branching Unit VHF 4 TX and 4 RX Combiner + 2x 4Ways GNSS receiver + VSWR Meter Arrangement"