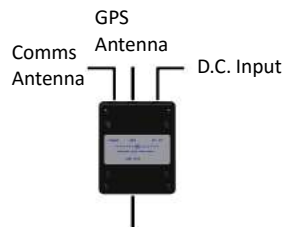


# TETRA + GPS/GNSS CAR KIT DIPLEXER

DPX-1000-1500

06/07/2018 v4



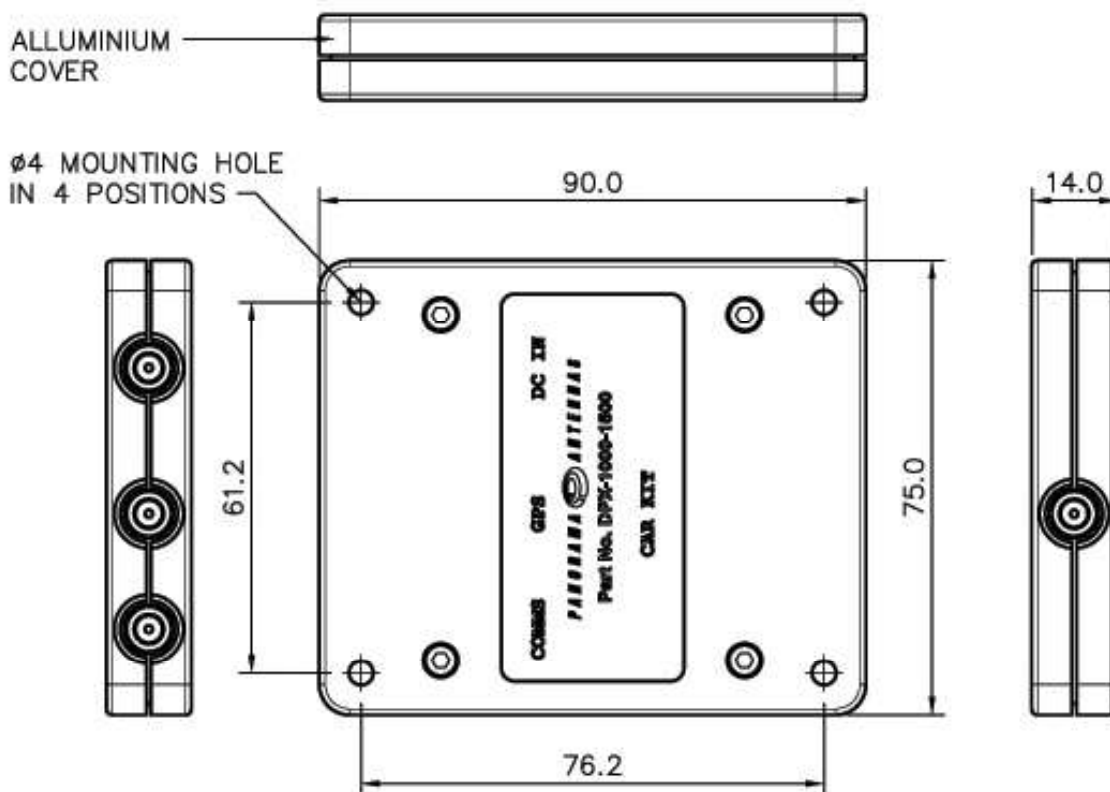
- Splits combined GPS/GNSS & TETRA to separate antennas
- Low insertion loss
- High level of isolation between antenna ports
- **NORMALLY REQUIRES VR5-F VOLTAGE REGULATOR (SOLD SEPARATELY)**

The DPX-1000-1500 is an efficient diplexer unit that splits a combined GPS/GNSS & TETRA UHF feed to separate antennas. This product is intended for use where a TETRA radio has a combined GPS/GNSS TETRA output eg. where a handheld radio is used in a vehicle handset dock with a single RF passthrough.

When the user attaches their handset to their car kit it enables them to use an external antenna located in a better position, improving both communication and navigation functions.

If an active GPS/GNSS Antenna is to be used then a regulated input voltage of approx 5V DC will be required from the vehicle power source. Panorama offers the VR5-F voltage regulator for this application

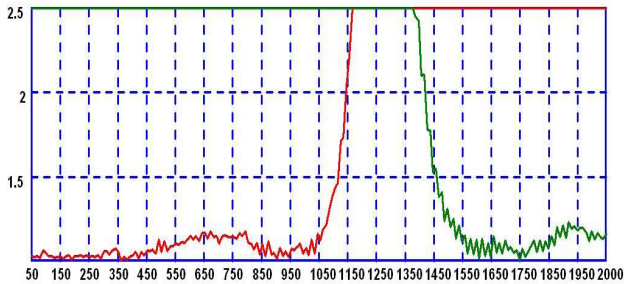
## Technical Drawing



# TETRA + GPS/GNSS CAR KIT DIPLEXER

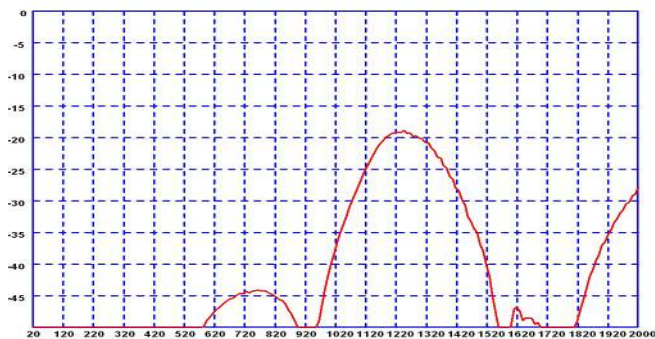
DPX-1000-1500

Typical VSWR of high & lowpass ports

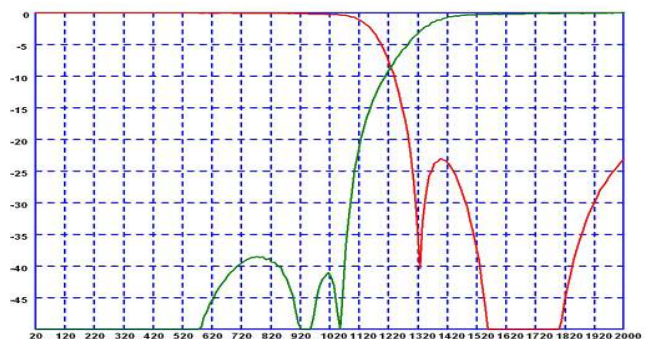


Product Data

Isolation between high & lowpass ports



Insertion loss of antenna port to high & low pass ports



## Part No.

DPX-1000-1500

## Electrical Data

|                       |   |           |
|-----------------------|---|-----------|
| Frequency range (MHz) | Lowpass   | 50-1000   |
|                       | Highpass  | 1500-2000 |
| Insertion loss        | Lowpass   | < 0.5dB   |
|                       | Highpass  | < 0.5dB   |
| Impedance             |   | 50Ω       |
| Max input power       |   | 50W       |
| DC feed voltage       | 5V - (Input from VR5-F or equivalent voltage regulator - sold separately) |           |

## Mechanical Data

|                     |                               |           |
|---------------------|-------------------------------|-----------|
| Dimensions (mm)     | Length                        | 90 (3.5") |
|                     | Width                         | 75 (3")   |
|                     | Height                        | 14 (0.6") |
| Operating Temp (°C) | -40° / +80°C (-40°F / +176°F) |           |
| Material            | Aluminium (powder coated)     |           |
| Colour              | Black                         |           |

## Mounting Data

|        |                    |
|--------|--------------------|
| Fixing | 4 × mounting holes |
|--------|--------------------|



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