

# Low Voltage Coexistence Filter & Splitter Box P-459-004

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## Features

- Includes an splitter/combiner with low insertion losses.
- Unbalanced (BNC) and balanced (terminal blocks) outputs available for filters/splitters.
- Easy snap in-assembly on DIN-rails.
- Degree of protection: IP-20.
- Temperature range: -40°C - 85°C.

## Electrical characteristics

- Wide bandwidth (1MHz - 40MHz).
- Filters nominal impedance: 50  $\Omega$ .
- Vrms: 3.6 V.
- Irms: 72 mA.



P-459-004

## Description

LV (Low Voltage) Coexistence Filter & Splitter Box allows the correct injection of the signals in the Powerline when a frequency division repeater is used (with Modes 1 or 5 of the DS2 Wisconsin PLC technology).

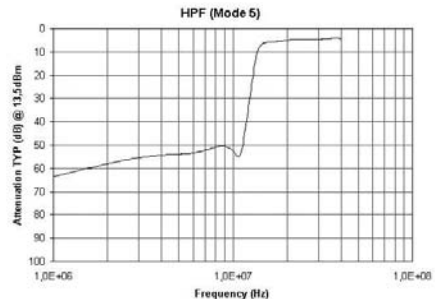
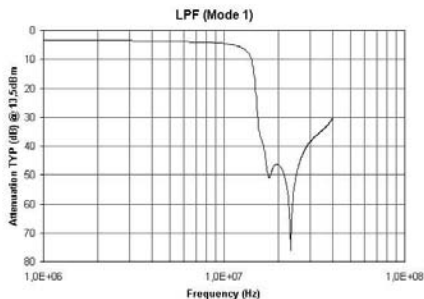
Thanks to the splitter/combiner included in the device the PLC signals can also be injected in two different points or combined to their insertion in only one point.

The PLC signal from a time division repeater could be injected (without filtering) in two different points.

## Frequency bands

Filter	Mode	Bandwidth (MHz)	F min (MHz)	F max (MHz)
M1	1	10	3	13
M5	5	20	14	34

## Filters frequency response



1. Tested on Network Analyzer HP 8753D (test port power: 13.5 dBm)
2. Operating temperature range -40°C to +85°C.
3. Electrical specification at 25°C.

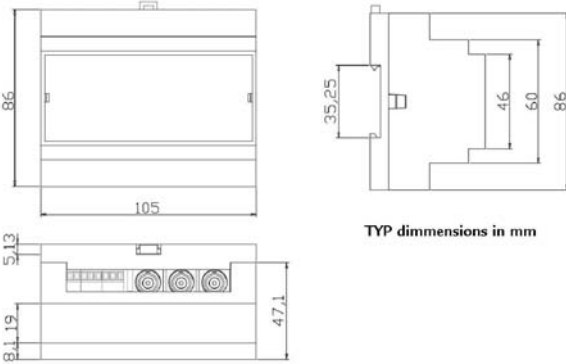
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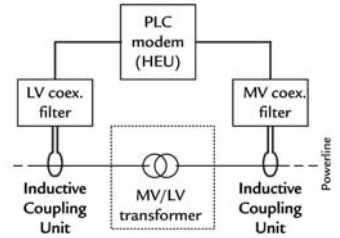
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Power Line Communications

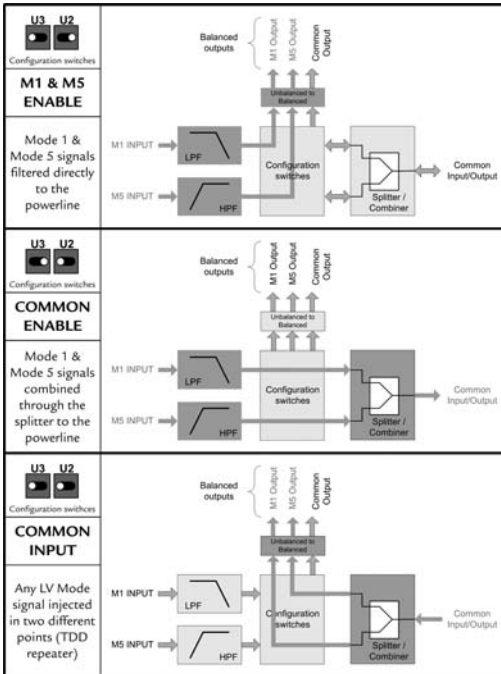
## Mechanical dimensions



## Installation



## Configuration switches



## Inputs/outputs diagram



Remove cover to access to inputs/outputs and configuration switches

