

## Tech Data

REF.: SMF I:1H-1M/O:2M (x2)

## AUDIO DISTRIBUTORS

### ANALOGUE

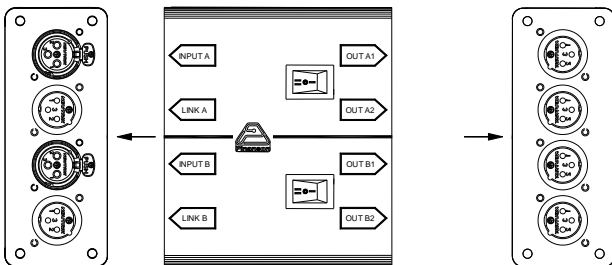
### SPLITTER MIC/LINE

1 Input – 1 Link – 2 Outputs (2 Channels)

Or 1 Input – 1 Link – 4 Outputs

## Description

- **1 XLR-F** Balanced **Input** per **2 channels**.
- **1 XLR-M** Balanced **Link Output** per each channel.
- **2 XLR-M** insulated (by Transformer) Balanced **Outputs**, per each channel.
- High quality transformer with 0 dB insertion loss and which provides a high CMRR (102dB@1KHz).



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## Description

This **Passive Splitter of 2 channels** is a device able to distribute 2 channels with audio signal into 2 identical outputs (insulated by transformer) per each channel.

Also, it has 2 *Link* outputs (1 per each input) so that you can have the identical signal (as in the input) in order to link more devices if it is required.

Through this output you can transform it into a **splitter of 1 Input into 4 identical Outputs** (insulated by transformer) and **1 Link output (*Link B*)**: only connecting ***Link A* output to the *Input B*** (Consult *Working Modes*).

This splitter works with microphone & line signals (Consult *Tech Specifications*)

The MF format (See Note 1) is a small (125 × 114 × 45 mm) and lightweight format which enables the placement anywhere (horizontally positioned) and move it as needed.

**Note 1:** Consult other formats on the website [www.pinanson.com](http://www.pinanson.com).

About its tech characteristics with audio signal, this splitter has very good frequency response (deviation 20 Hz-20 KHz of ± 0.1 dB) and a very low distortion (THD + N ≤ 0.01%).

## Applications

Designed for stereo/mono signals in professional applications for Broadcast, musical recording, live audio, etc.

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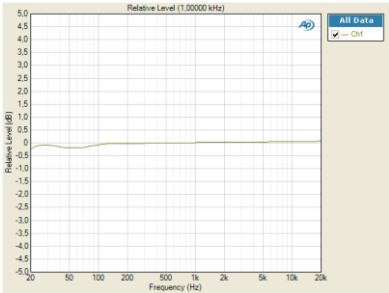
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Or 1 Input – 1 Link – 4 Outputs

## Tech Specifications

### LINE LEVEL MODE (+ 4dBu)

<b>Max. Input Level</b>	50 Hz, THD+N = 0.4%	+ 8 dBu	
	1 KHz, THD+N = 1%	+26 dBu	
<b>Input Impedance</b> <i>(Balanced, +4 dBu, 1 KHz)</i>	600 Ω		
<b>Output Impedance</b> <i>(Balanced, +4 dBu, 1 KHz)</i>	250 Ω		
<b>Insertion Loss</b> <i>(Balanced Input/Output)</i>	Without load: 0 dB	With load (2 outputs): 0.6 dB	With load (4 outputs <i>Link mode</i> ): 1 dB
<b>THD + N</b> <i>(+4 dBu, 1 KHz)</i>	≤ 0.01%		
<b>IMD</b> <i>(+4 dBu, 60 Hz y 7 KHz)</i>	≤ 0.04%		
<b>Frequency Response</b> <i>(+4 dBu, 20 Hz – 20 KHz)</i>	Deviation	± 0.1 dB	
	<p style="text-align: center;"><b>Relative Level (@1000 Hz)</b></p> 		
<b>SNR</b> <i>(+ 4 dBu, 1 KHz, BW 20 KHz)</i>	120 dB		
<b>CMRR</b>	+ 4 dBu, 1 KHz	102 dB	
	+ 4 dBu, 16 KHz	82 dB	

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**Crosstalk**  
(+ 4 dBu, 10 KHz)

-118 dB

#### MIC LEVEL MODE (-57 dBu):

It responds similarly as *LINE LEVEL MODE* when is tested with -57 dBu keeping within the range of optimum values.

#### LINK MODE (Splitter 1:4 tested with Microphone Level and Line Level):

It responds similarly as *LINE LEVEL MODE* when is tested as Splitter 1:4 mode keeping within the range of optimum values, both line level and microphone level.

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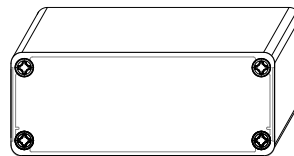
Or 1 Input – 1 Link – 4 Outputs

## Physical Characteristics

### MF Box Format

Box Frame	Lids
<ul style="list-style-type: none"> <li>▪ Extruded Aluminium.</li> <li>▪ 6063 Alloy.</li> <li>▪ T5 Treatment.</li> <li>▪ Finish:               <ul style="list-style-type: none"> <li>○ Electrostatic powder coating 100 – 150 µ.</li> <li>○ Textured matte black colour.</li> </ul> </li> <li>▪ Serigraphy: Laser engraving.</li> </ul>	<ul style="list-style-type: none"> <li>▪ Material: Calibrated Steel sheet of 1.5 mm.</li> </ul>

**Dimensions:** 125  
× 114 × 45 mm (W × H  
× D)



## Components

### Audio

**2** XLR-3-H Neutrik connectors:  
Pin 3 (-), Pin 2 (+) y Pin 1 (Ground).

**6** XLR-3-M Neutrik connectors:  
Pin 3 (-), Pin 2 (+) y Pin 1 (Tierra).

**2** Ground Lift Switches.

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## Working Modes

### OPTION 1: Splitter 1 to 2 outputs (x2 channels)

1. Connect one input signal to Input A.
2. Connect the other input signal to Input B.
3. The signal from Input A is distributing in *Out A1* y *Out A2*.  
The signal from *Input B* is distributing in *Out B1* y *Out B2*.
4. Identical signals are available at their respective outputs and at the *Link* outputs from *Input A* y *B*.  
If the signal is a microphone signal, the *Link A* y *B* outputs can be used for phantom power (if the microphone needs it).

### OPTION 2: Splitter 1 to 4 outputs

1. Connect the input signal to Input A.
2. Connect the *Link A* output to Input B.
3. The signal from Input A is distributing to *Out A1*, *Out A2*, *Out B1* y *Out B2*.
4. Identical signal is available from *Input A* to *Link B* output.  
If the signal is a microphone signal, the *Link B* output can be used for phantom power (if the microphone needs it).

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## Measurements



Audio measurements are done with *Audio Precision APx515 analyser*.



Web: [www.pinanson.com](http://www.pinanson.com)  
@: [pinanson@pinanson.com](mailto:pinanson@pinanson.com)

PINANSON S.L  
Avda. Constitucion, 40. Mondejar (Guadalajara). SPAIN.  
Telephone: +34 949 385 444 · Fax: +34 949 385 643

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For possible changes due to continuous product improvements; Pinanson S.L. reserves the right to change the showed data in this document without notice. The data presented here correspond to the time it was compiled.