

# **SONIFEX**

**RB-LI2**

Stereo Line Isolation Unit Redbox

**RB-PLI6**

6 Way Mono Passive Line Isolation Unit

# Catalogue <sup>2016</sup>





## RB-LI2 Stereo Line Isolation Unit



**Category:** Matching Converters.

**Product Function:** Used to isolate audio signals from inter-area ground hum loops.

**Typical Applications:** To reduce earth hum problems, especially when the equipment at each end of your cable run is powered for either different mains power supplies or different phases of the same supply. To create an isolated distribution point, or if you need to take a feed from somewhere that doesn't have a distribution amplifier.

**Features:** Transformer isolation, loop-through output, output gain control.

The RB-LI2 stereo line isolation unit is used to isolate audio signals from inter-area ground hum loops, which could be caused by equipment being powered by different mains power supplies, or different phases on the same supply.

The input and output are connected together through a transformer, which has internal jumpers allowing the outputs to be balanced about ground.

There is also a loop-through output, so that the RB-LI2 can be inserted into a line, forming a transformer balanced distribution point.

The isolated outputs can be individually adjusted using pre-set potentiometers,

accessible through the rear panel. The gain range of the stereo line isolation unit is -15dB to +13.5dB (28.5dB).

This unit is useful where audio is required to be driven over a relatively long length of cable. By isolating the signal using transformers, ground loop currents that can be present in non-isolated signals, are eradicated completely.

### Specification For RB-LI2

#### Audio Specification

Output impedance: <150Ω

Distortion: 0.5% THD @ 40Hz, ref +17dBu output

Common Mode Rejection: <64dB typically

Frequency Response: 10Hz to 36kHz ±0.5dB

Response:

**Output Gain Range:** -15dB to +13.5dB

#### Connections

**Inputs:** 2 x XLR 3 pin female (Balanced)

**Isolated Outputs:** 2 x XLR 3 pin male (Balanced)

**Loop Outputs:** 2 x XLR 3 pin male (Balanced)

**Mains Input:** Filtered IEC, switchable 110-120V, or 220-240V, fused, 6W max

**Fuse Rating:** Anti-surge fuse 100mA 20 x 5mm (230VAC)  
Anti-surge fuse 250mA 20 x 5mm (115VAC)

#### Equipment Type

**RB-LI2:** Stereo line isolation unit

#### Physical Specification

**Dimensions (Raw):** 28cm (W) x 10.8cm (D) x 4.2cm (H) (1U)  
11" (W) x 4.3" (D) x 1.7" (H) (1U)

**Dimensions (Boxed):** 36cm (W) x 20.5cm (D) x 6cm (H)  
14.2" (W) x 8" (D) x 2.4" (H)

**Weight:** Nett: 1.1kg Gross: 1.5kg  
Nett: 2.4lbs Gross: 3.3lbs





## RB-PLI6 6 Way Mono Passive Line Isolation Unit



**Category:** Matching Converters.

**Product Function:** Used to isolate audio signals from inter-area ground hum loops for 6 mono or 3 stereo channels

**Typical Applications:** To reduce earth hum problems, especially when the equipment at each end of your cable run is powered for either different mains power supplies or different phases of the same supply. OB trucks where multiple isolated audio feeds are required to different locations on the broadcast.

**Features:** Passive unit so no power is required and it eliminates ground hum.

The RB-PLI6 passive line isolation unit is used to isolate audio signals from inter-area ground hum loops, which could be caused by equipment being powered by different mains power supplies or phases on the same supply.

The input and output are connected together through a transformer, and the unit has internal jumpers allowing the inputs and/or outputs to be balanced about ground. The unit requires no mains power for operation.

This unit is useful where audio is required to be driven over a relatively long length of cable. By isolating the signal using transformers, ground loop currents which can be present in non-isolated signals, are eradicated completely.

### Specification For RB-PLI6

#### Audio Specification

Output impedance:	<150Ω
Distortion:	0.5% THD @ 40Hz, ref +17dBu output
Common Mode Rejection:	>64dB typically
Frequency Response:	10Hz to 36kHz ±0.5dB

#### Connections

Inputs:	6 x XLR 3 pin female (Balanced)
Outputs:	6 x XLR 3 pin male (Balanced)

#### Equipment Type

RB-PLI6:	6 way mono passive line isolation unit
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#### Physical Specification

Dimensions (Raw):	48cm (W) x 10.8cm (D) x 4.2cm (H) (1U) 19" (W) x 4.3" (D) x 1.7" (H) (1U)
Dimensions (Boxed):	58.5cm (W) x 22.5cm (D) x 7cm (H) 23" (W) x 8.9" (D) x 2.8" (H)
Weight:	Nett: 1.5kg Gross: 1.9kg Nett: 3.3lbs Gross: 4.2lbs



# **SONIFEX**

[www.sonifex.co.uk](http://www.sonifex.co.uk)

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