

Dual (Consumer or Professional) Line Input Transformer LL1952

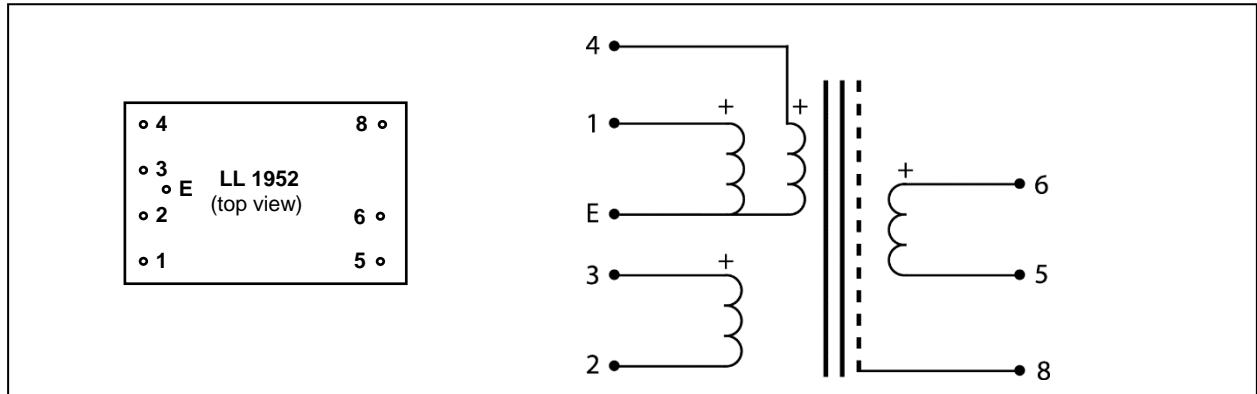
The LL1952 is an input transformer with dual primaries (1:4 stepup or 1:1 line input), for equipment which can be used with both consumer and pro audio signal sources. The purpose is to handle signals from both consumer type equipment (1:4) and professional type equipment (1:1) while compensating for the different signal levels. The input signals can be either unbalanced or balanced independently, for instance when using a hybrid connector (XLR and jack) input.

As usual for our input transformers, primary and secondary windings are separated by Faraday shields. The transformer is encapsulated in a mu-metal housing for magnetic shielding.

Turns ratio:

1:4 and 1:1

Pin layout (viewed from component side) and winding schematics:



Dimensions (Max. Length x Width x Height above PCB (mm))

38 x 24 x 17

Spacing between pins

5.08 mm (0.2")

Spacing between rows of pins

27.94 mm (1.1")

Spacing between row 1-4 and E pin

2.54 mm (0.1")

Weight

46 g

Rec. PCB hole diameter

1.5 mm

Static resistance of primary 1+4 – E when connected as below

16Ω

Static resistance of primary 2 – 3

575 Ω

Static resistance of secondary 5-6

490 Ω

Distortion, 1:4 configuration, source impedance 150Ω

0.2 % @ 2 dBu primary level, 50 Hz

Distortion, 1:4 configuration, source impedance 150Ω

1 % @ +9 dBu primary level, 50 Hz

Distortion, 1:1 configuration, source impedance 600 ohms

0.2 % @ +14 dBu primary level, 50 Hz

Distortion, 1:1 configuration, source impedance 600 ohms

1 % @ +22 dBu primary level, 50 Hz

Frequency response: 200 ohms into 1:4 or 600 ohms into 1:1.

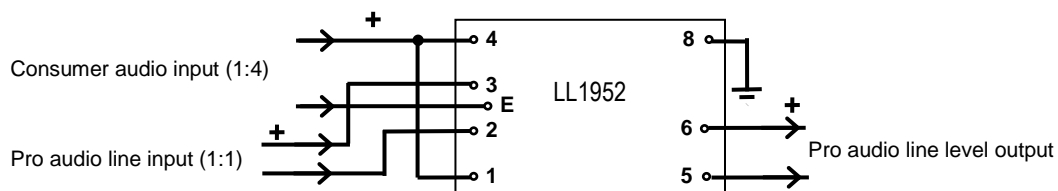
10 Hz - 80 kHz +/- 1 dB ref 1kHz

Load 16k (with 16k load reflected impedance is 1k (1:4) or 16k (1:1))

Isolation between primary and secondary windings/ between windings and shield

4 kV / 2 kV

Suggested connection



NOTE! The unused input must not be short-circuited