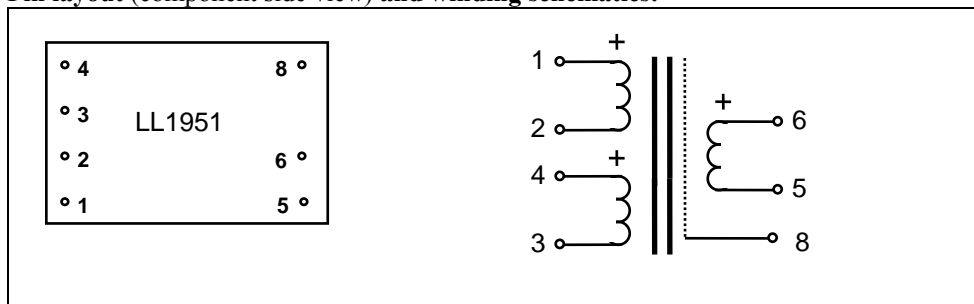


Microphone Input Transformer, Line-box Transformer LL1951

The LL1951 is a high turns ratio microphone input transformers/line-box transformers with high permeability mu-metal cores and high bandwidth coils. The LL1951 use the same pin-out as our well known microphone transformer LL1538.

LL1951 is built around two-section coils with Faraday shields between primary and secondary sections. The moderate sectioning results in less internal capacitance, which is suitable for this type of high turns-ratio microphone transformers. The transformers are encapsulated in mu-metal cases for magnetic shielding.

Pin layout (component side view) and winding schematics:



Dimensions Max. Length x Width x Height above PCB (mm)	Spacing between pins	Spacing between rows of pins	Recommended PCB hole diameter	Weight
38 x 24 x 17	5.08 mm (0.2")	27.94 mm (1.1")	1.5 mm	51 g

Turns ratio	1 + 1 : 14
Static resistance of each primary	11 Ω
Static resistance of secondary	1.5 kΩ
Primary level at 0.2 % THD, 50 Hz signal Primaries connected in parallel (fig b), source impedance 50Ω	-2 dBU (sec. level +20 dBU)
Primary level at 1 % THD, 50 Hz signal Primaries connected in parallel (fig b), source impedance 50Ω	+6 dBU (sec level +28 dBU)
Frequency response +0, -1 dB to balanced input Signal level -6 dBU, source 200 Ω, fig b, no termination	10Hz – 16kHz
Frequency response +/- 1 dB to balanced input Signal level -6 dBU, source 50 Ω, fig b, load 80 kΩ + 100pF	10Hz – 50kHz
Isolation between windings / between windings and shield	4 kV / 2 kV

