

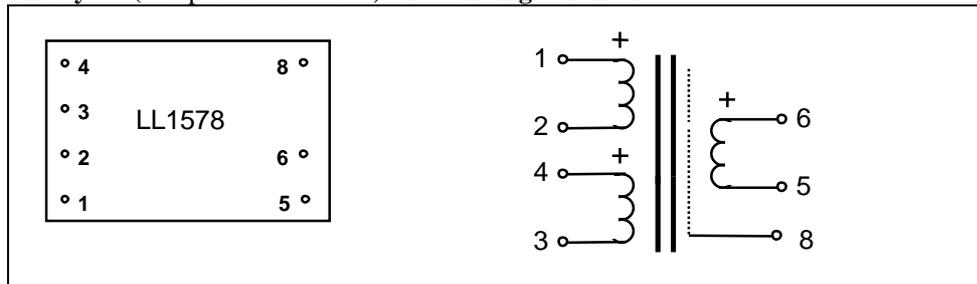
Microphone Input Transformer, Linebox Transformer LL1578 and LL1578XL

The LL1578 and the LL1578XL are high performance microphone input transformers/linebox transformers with high permeability mu-metal cores and two three-section (high bandwidth) coils. In the LL1578XL the core is about 45% larger than in the LL1578, resulting in a higher signal level capability. In both types, primary and secondary windings are separated by electrostatic shields. The three-section winding structure of the transformers results in a very low leakage inductance and thus an excellent frequency response. The transformers are encapsulated in mu-metal cases for magnetic shielding.

Turns ratio:

1 + 1 : 10

Pin layout (component side view) 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")
Weight	46 g
Rec. PCB hole diameter	1.5 mm
Static resistance of each primary	22Ω
Static resistance of secondary	880 Ω
Distortion (primaries connected in parallel, source impedance 200Ω)	0.2 % @ -6 dBU primary level, 50 Hz 1 % @ + 4 dBU primary level, 50 Hz

Self resonance point

Optimum termination for best square-wave response

(Connection 1:5, source imp. 200Ω)

Frequency response (source 200 Ω, no termination)

Isolation between windings/ between windings and shield 4 kV / 2 kV

