

Headphone Output Transformer LL7907

The LL7907 is an output transformer designed for headphone amplifiers. The LL7907 consists of two coils, each with one primary and two secondary windings. The core is a high permeability mu metal lamination core. The signal through the transformer should be DC-free.

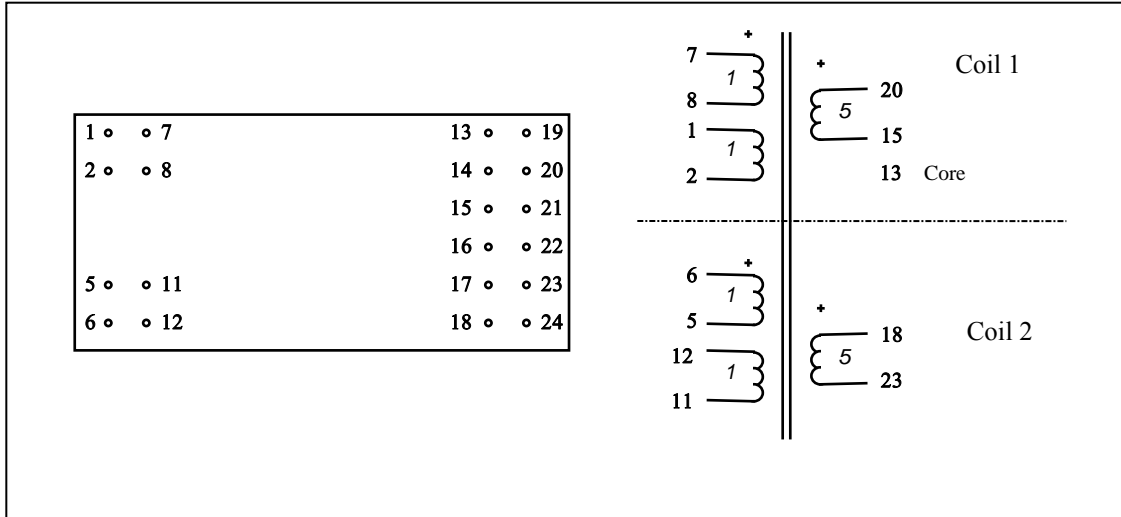
Turns ratio:

5 + 5 : 1 + 1 + 1 + 1

Dims (Length x Width x Height above PCB (mm)):

66 x 32 x 21

Pin layout (viewed from pins side) **and winding schematics:**



Spacing between pins:

5.08 mm (0.2")

Spacing between rows of pins:

5.08 / 45.72 mm (0.2 / 1.8")

Weight:

145 g

Rec. PCB hole diameter:

1.5 mm

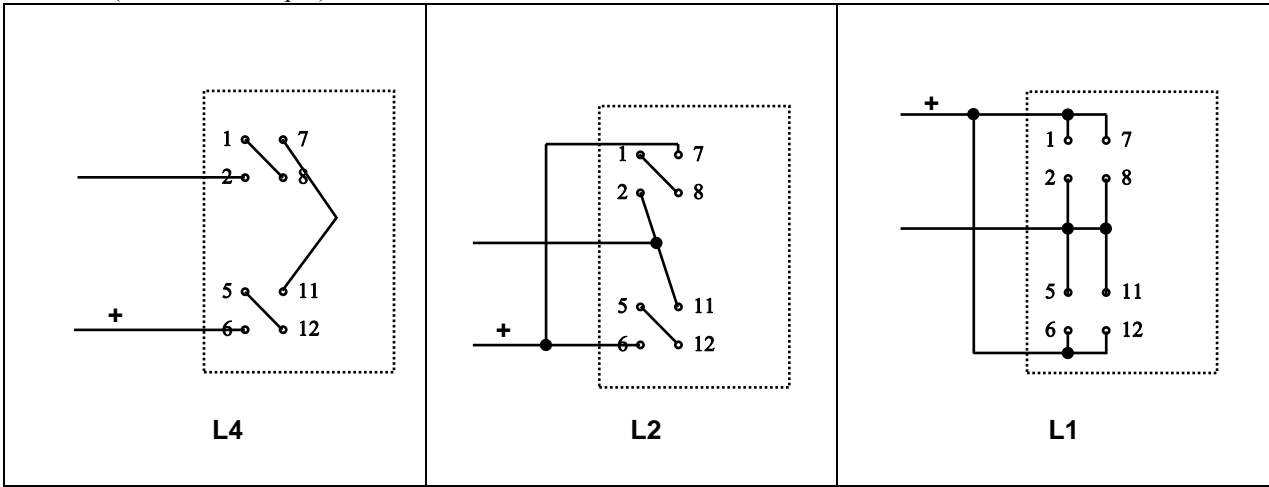
Static resistance of each primary:	126 Ω
Static resistance of each secondary (average):	8.8 Ω
Distortion (primary connection R2, source impedance 40Ω):	+ 30 dBU primary level, 30 Hz: < 1 %
Frequency response: (source 150, load 10k, connection: in R2, out L1)	10 Hz - 100 kHz +/- 0.5 dB Ref 1kHz

Isolation between primary and secondary windings/ between windings and core: 4 kV / 2 kV

Connection alternatives, LL7907

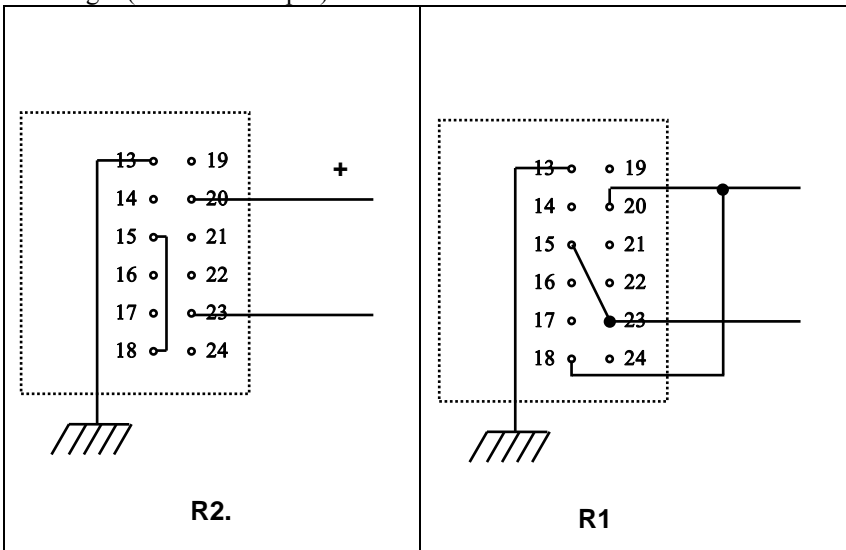
Left (transformer output) side connections

NOTE! Pin side view



Right (transformer input) side connections

NOTE! Pin side view



Suggested applications using LL7907

Application	Connections	Max primary level, < 1% THD@30 Hz	Corresponding secondary level
Headphone output 5:1	R2 -> L2	+30 dBU (23V rms)	+15 dBU (4.6 V rms)
Headphone output 10:1	R2 -> L1	+30 dBU (23V rms)	+10 dBU (2.3 V rms)