LUNDAHL
-- TRANSFORMERS --

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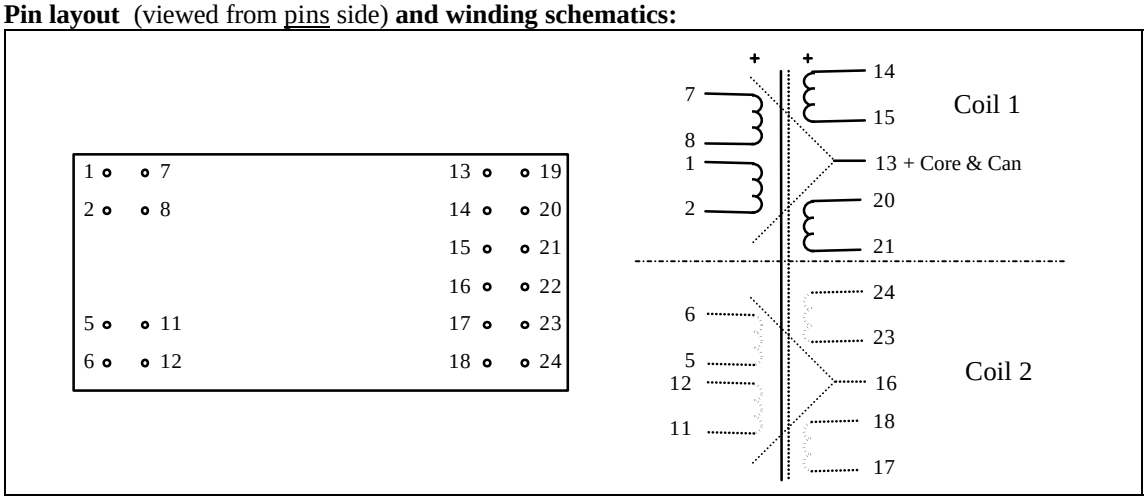
Line Input / General Purpose Transformers
LL7901 and LL7902

LL7901 and LL7902 are large size, high level, high performance audio transformers, made for extraordinary requirements. The LL7901 has an extreme level capability (+ 34 dBU @ 50 Hz) while the LL7902 combines high level capability (+28 dBU @ 50 Hz) with low copper resistance.
The transformer consists of two coils each with two primary and two secondary windings separated by electrostatic shields. The core is a high permeability mu metal lamination core.

The transformers are magnetically shielded by a mu metal case.

Turns ratio: 1 + 1 + 1 + 1 : 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: 155 g
Rec. PCB hole diameter: 1.5 mm

	LL7901	**LL7902**
Static resistance of each primary (average):	120Ω	28Ω
Static resistance of each secondary (average):	125Ω	28Ω
Distortion (primaries connected in series, source impedance 600Ω):	+ 20 dBU primary level, 50 Hz: 0.1 %	+ 10 dBU primary level, 50 Hz: 0.1 %
	+ 34 dBU primary level, 50 Hz: 1 %	+ 28 dBU primary level, 50 Hz: 1 %
Self resonance point :	> 80 kHz	> 150 kHz
Optimum termination for best square-wave response (source imp. 600Ω) **:**	12 kΩ in series with 1.7 nF	5 kΩ in series with 1.3 nF
Frequency response (source and load as above)	10 Hz - 55 kHz +/- 0.5 dB	10 Hz - 100 kHz +/- 0.5 dB

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

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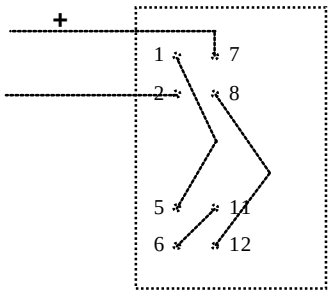
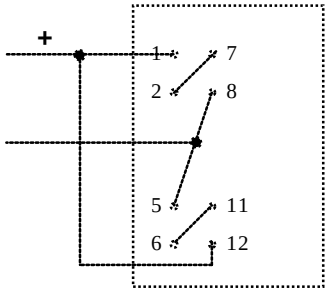
Connection alternatives, LL7901 and LL7902

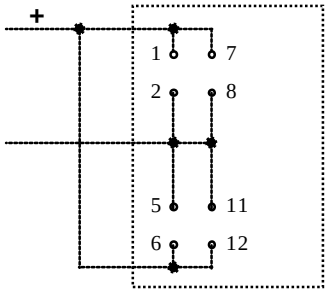
Left side connections NOTE! Pin side view



L4

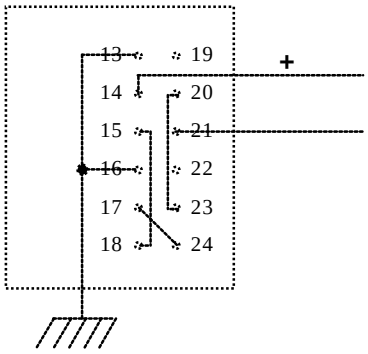


L2

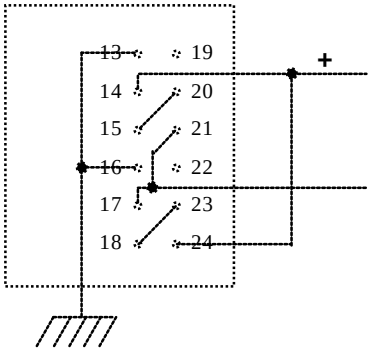


L1

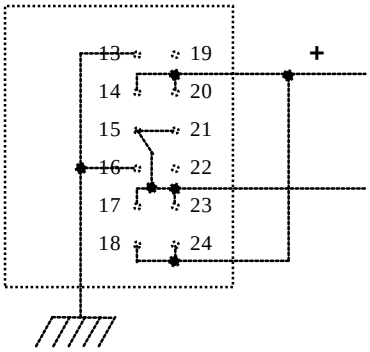
Right side connections NOTE! Pin side view



R4. Center tap at 17



R2. Center tap at 20+23



R1

Suggested applications using LL7901 and LL7902

Application	**Max primary level, < 1% THD@50 Hz**	**Transformer**	**Connections**
Very high level input stage 1:1	+34 dBU	LL7901	L4 - R4
Very high level input stage 1:2	+28 dBU	LL7901	L2 - R4
Very high level input stage 2:1	+34 dBU	LL7901	L4 - R2
High level isolation unit 1:1	+28 dBU	LL7902	L4 - R4
High level isolation unit 1:1 Reduced copper resistance	+22 dBU	LL7902	L2 - R2
Low resistance isolation unit 1:1 (Transformer copper resistance 14 ohms)	+16 dBU	LL7902	L1- R1
Microphone / line input 1:2	+22 dBU	LL7902	L2 - R4
Microphone / line input 1:4	+16 dBU	LL7902	L1 - R4