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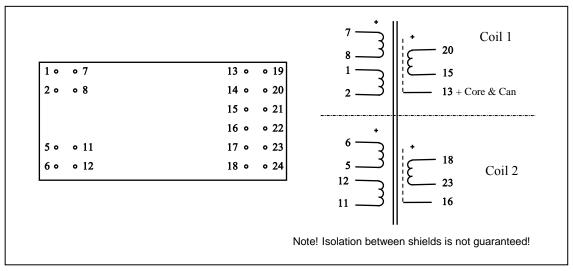
## Mic/Line Input Transformer LL7906

The LL7906 is a large, high level, high performance audio transformer, pin compatible with our LL17905, but with an internal structure better optimized for high turns-ratio step-up applications. The transformer combines very high secondary level capability (+37 dBU [54.5V rms] @ 50 Hz ) with low copper resistance. The LL7906 consists of two coils, each with two primary and one secondary windings separated by electrostatic shields. The core is a high permeability mu metal lamination core. The transformer is magnetically shielded by a mu metal case.

**Turns ratio:** 1+1+1+1:5.6+5.6

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")

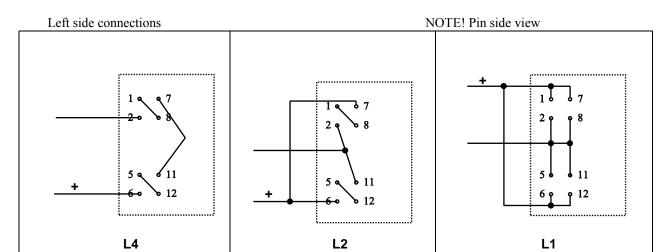
Weight: 155 g
Rec. PCB hole diameter: 1.5 mm

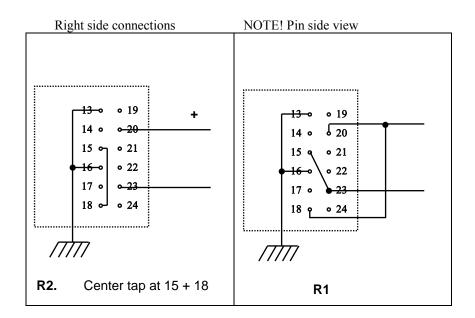
Static resistance of each primary (average):	$24\Omega$
Static resistance of each secondary (average):	$450\Omega$
<b>Distortion</b> (primary connection L1, source impedance $150\Omega$ ):	+ 8 dBU primary level, 50 Hz: 0.1 %
	+ 16 dBU primary level, 50 Hz: 1 %
Self resonance point :	30 kHz
Optimum termination for best square-wave response (Connections L1-R2 [1:11.2], source imp. 200Ω):	80kΩ
Frequency response: (source and load as above, connection L1-R2, secondary side balanced with or without grounded centertap.	10 Hz - 45 kHz +/- 1 dB
Frequency response (source and load as above, connection L1-R2, secondary side unbalanced with pin 23 grounded)	10 Hz - 25 kHz +/- 1 dB

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



## Connection alternatives, LL7906





## Suggested applications using LL7906

Application	Connections	Max primary level, < 1% THD@50 Hz	Corresponding secondary level
Microphone / line input 1:2.8	L4 – R2	+28 dBU (19.5 V rms)	+37 dBU (54.5V rms)
Microphone / line input 1:5.6	L2 – R2	+22 dBU (9.7 V rms)	+37 dBU (54.5V rms)
Microphone / line input 1:11.2	L1 – R2	+16 dBU (4.9 V rms)	+37 dBU (54.5V rms)