LUNDAHL
– TRANSFORMERS –

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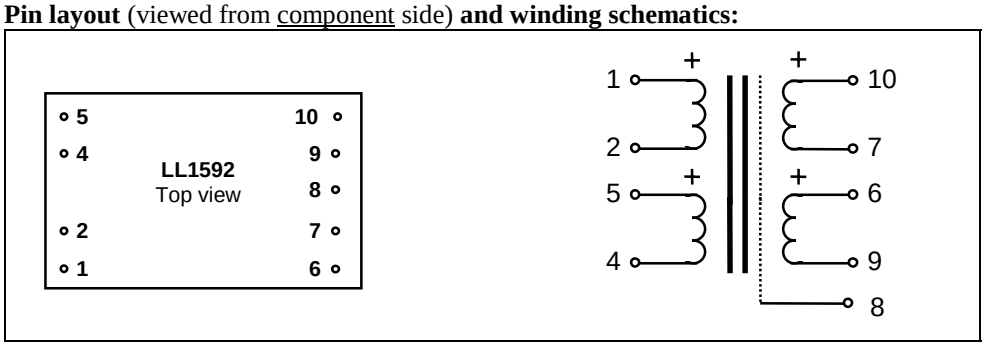
High Level Line Input Transformer
LL1592

LL1592 is a high-level line input transformer with a mu metal lamination core. The transformer is designed for high end pro audio line input applications with or without phase splitting. The windings are arranged to give a high degree of symmetry if the transformer is used for phase splitting. The dual-coil structure also greatly improves immunity to external magnetic fields from e.g. power supplies and motors. Primary and secondary windings are separated by electrostatic shields.. The transformer is housed in a mu-metal can.

Turns ratio: 1 + 1 : 1 + 1

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



Dimensions	(L x W x H above PCB, in mm)	47 x 28 x 20
Spacing between pins		5.08 mm (0.2")
Spacing between rows of pins		35.56 mm (1.4")
Rec. PCB hole diameter:		1.5 mm
Weight:		83 g
Static resistance of each primary:		270 Ω
Static resistance of each secondary:		270 Ω
Distortion	(primaries connected in series,	+ 23 dBU 0.1% @ 40 Hz
	source impedance 600Ω):	+ 29 dBU < 1 % @ 40 Hz
Self resonance point:		> 120 kHz
Suggested termination for best square wave response, serial-serial connection.		7k + 400pF
Frequency response (serial connection , source 600 Ω, load 20 kΩ , no terminating network		10 Hz -- 50 kHz +/- 1.0 dB
Frequency response (serial connection , source 600 Ω, load 100 kΩ in parallel with 7k + 400pF):		10 Hz -- 100 kHz +/- 1.0 dB
Phase splitting balance (connection 2:1+1. Source 1kΩ, load (20kΩ +20kΩ) in parallel with 7k + 400pF):**,**		>46 dB, 10Hz – 50kHz
Phase response (deviation from linear phase) (source 600 ohm, load 10k (Audio Precision))		10 Hz – 20kHz, < 2°
Isolation between windings/ between windings and shield:		3 kV / 1.5 kV

Connection alternatives and suggested applications: