LUNDAHL
– TRANSFORMERS –

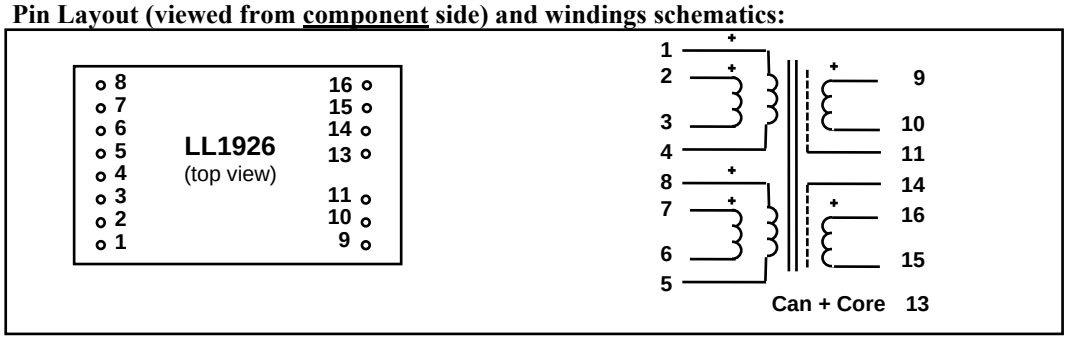
Tibeliusgatan 7
S-761 50 NORRTÄLJE
SWEDEN

	International	Domestic
Phone	+46 - 176 13930	0176-13930
Fax	+46 - 176 13935	0176-13935

Audio Transformer
LL1926

LL1926 is an audio transformer with a variety of connection alternatives. It is designed for microphone input (step-up) applications, but can also be used as a line input step-down transformer.
The transformer consists of two coils, each with one high impedance winding surrounded by two low impedance windings, with Faraday shields between all sections. The LL1926 has a mu-metal lamination core and is housed in a mu-metal can.
The LL1926 is pin compatible with the amorphous core transformer LL1550, but LL1926 takes up more board space due to the shape of the mu metal laminations.

Turns ratio: 1 + 1 + 1 + 1 : 4 + 4
Dims: (Length x Width x Height above PCB (mm)) 37 x 23 x 16
Pin Layout (viewed from component side) and windings schematics:



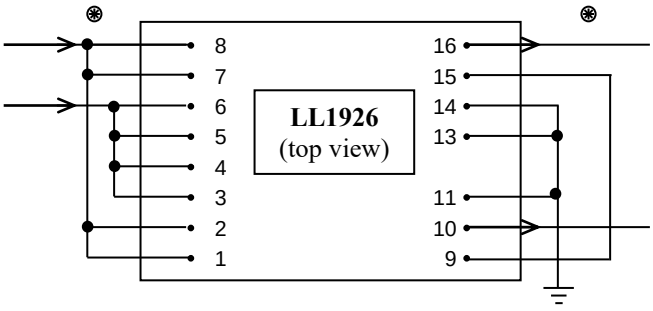
Spacing between pins:		2.54 mm (0.1")
Spacing between rows of pins:		22.86 mm (0.9")
Weight:		46 g
Rec. PCB hole diameter		1.3 mm
Static resistance of windings:	2-3 or 6-7	30 Ω
	1-4 or 5-8	45 Ω
	9-10 or 15-16	290 Ω
Self resonance point:		> 100 kHz
Recommended load for best square-wave response (Connection alternative "C"):		6.7 kΩ + 470 pF
Frequency response ("C", source 600Ω , load 20 kΩ):		10 Hz - 60 kHz +/- 1.0 dB @ 0 dBU
Core:		Mu-metal lamination
Isolation between windings / between windings and shields:		3 kV / 1.5 kV

Data at different connection alternatives:

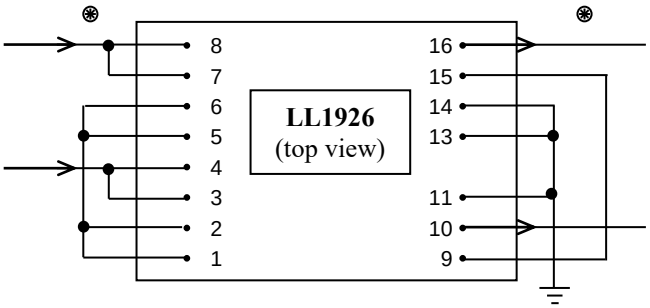
Connection Alternatives	Turns ratio	Copper Resistance Prim/sec	Suggested Use	Max input signal level (1 % THD @ 50Hz) / source impedance	THD < 0.2%@50 Hz primary level / source impedance
A	1:8	10 Ω / 580 Ω	Microphone input, 50 – 200 ohm	+7 dBU / 40 Ω	+2 dBU / 40 Ω
B	1:4	40 Ω / 580 Ω	Microphone input 200 ohms	+13 dBU / 150 Ω	+8 dBU / 150 Ω
C	1:2	150 Ω / 580 Ω	Mic. or line input	+19 dBU / 600 Ω	+13 dBU / 600 Ω

R 240228 PL

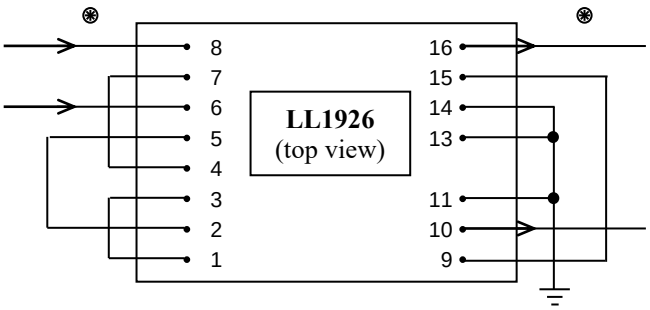
LL1926 connection alternatives



A. Turns ratio 1:8 (or 8:1 if used “backwards”)



B. Turns ratio 1:4 (or 4:1)



C. Turns ratio 1:2 (or 2:1)