LUNDAHL
– TRANSFORMERS –

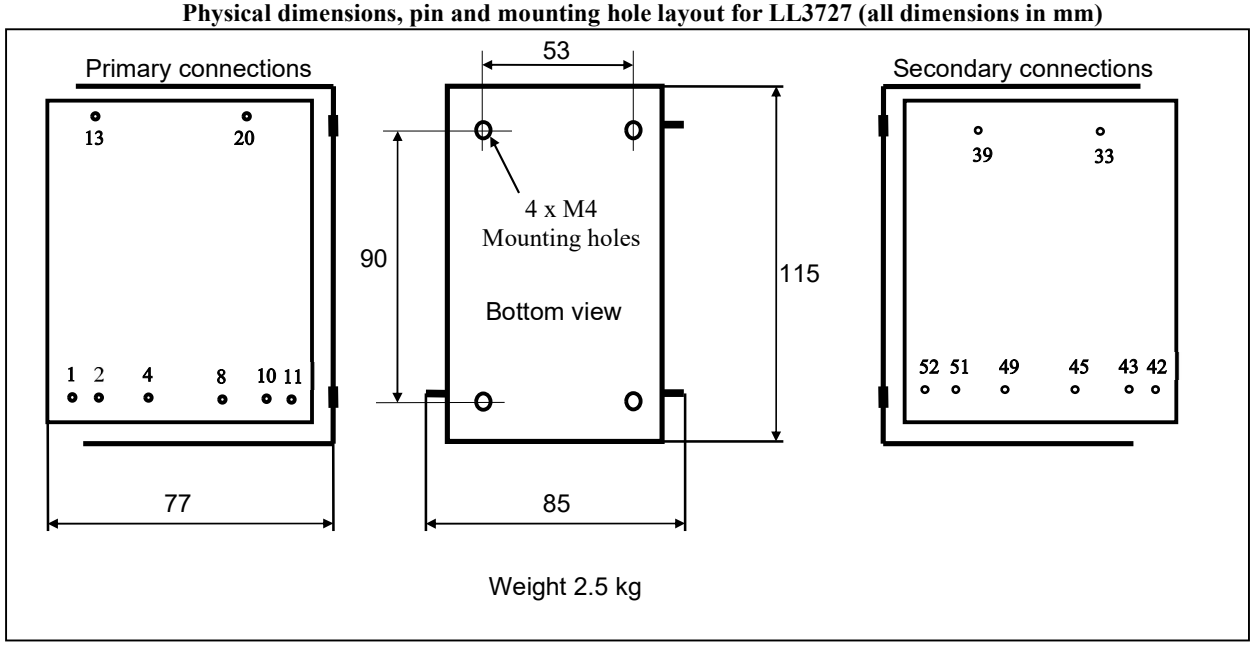
Tibeliusgatan 7
S-761 50 NORRTÄLJE
SWEDEN

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

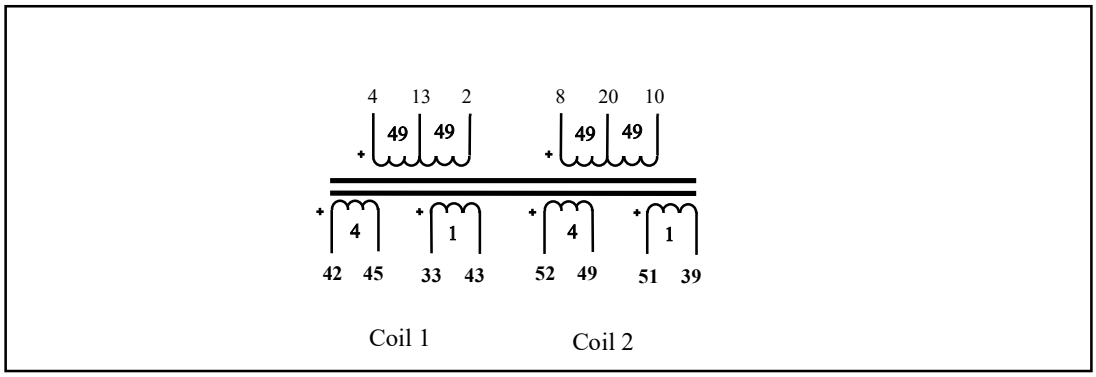
Tube Amplifier Output Transformer
LL3727

The LL3727 is an output transformer for single-end tube amplifiers, suitable for KT88 and similar electron tubes. The transformer is built up from two coils, each consisting of 3 sections. The windings are arranged to minimize destructive capacitive coupling between primaries and secondaries. The C core is a high-quality grain-oriented silicon steel C-core from our own production. A 50% UL tap is available.

Physical dimensions, pin and mounting hole layout for LL3727 (all dimensions in mm)



Simplified winding schematics:



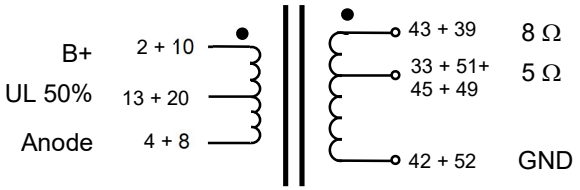
	LL3727
Turns ratio in application	98:4 for 3kΩ : 5Ω 98:5 for 3kΩ : 8Ω
UL tap	50%
Static resistance of primary (pins 4 – 2 in parallel with pins 8 – 10 as below)	104 Ω
Static resistance of secondary (connected as below)	0.2 Ω @ 5 Ω configuration 0.25 Ω @ 8 Ω configuration
Primary leakage inductance (primary connected as below, secondary shortcircuited)	10mH
Max recommended primary DC current **(heat dissipation 7W)**	250 mA

Max. primary signal voltage at 30 Hz Single end applications	220V RMS
Frequency response (source 1k, load 8 ohms, ref. 1kHz)	+/- 1dB: 17Hz – 60kHz - 3dB at 8Hz and 70kHz
Max output power at 30Hz	16W
Signal loss across transformer, load 8 ohms	0.5 dB

Primary DC Current Core Air-gap and Primary inductance

	LL3727/60mA	LL3727/70mA	LL3727/90mA
Core Airgap (delta/2)	120µm	130µm	170µm
Single end standing DC current for 0.9 Tesla (recommended operating point)	60mA	70mA	90mA
Primary inductance (connected as below)	33 H	30H	23H

LL3727
connection for Single-End output



● indicates phase