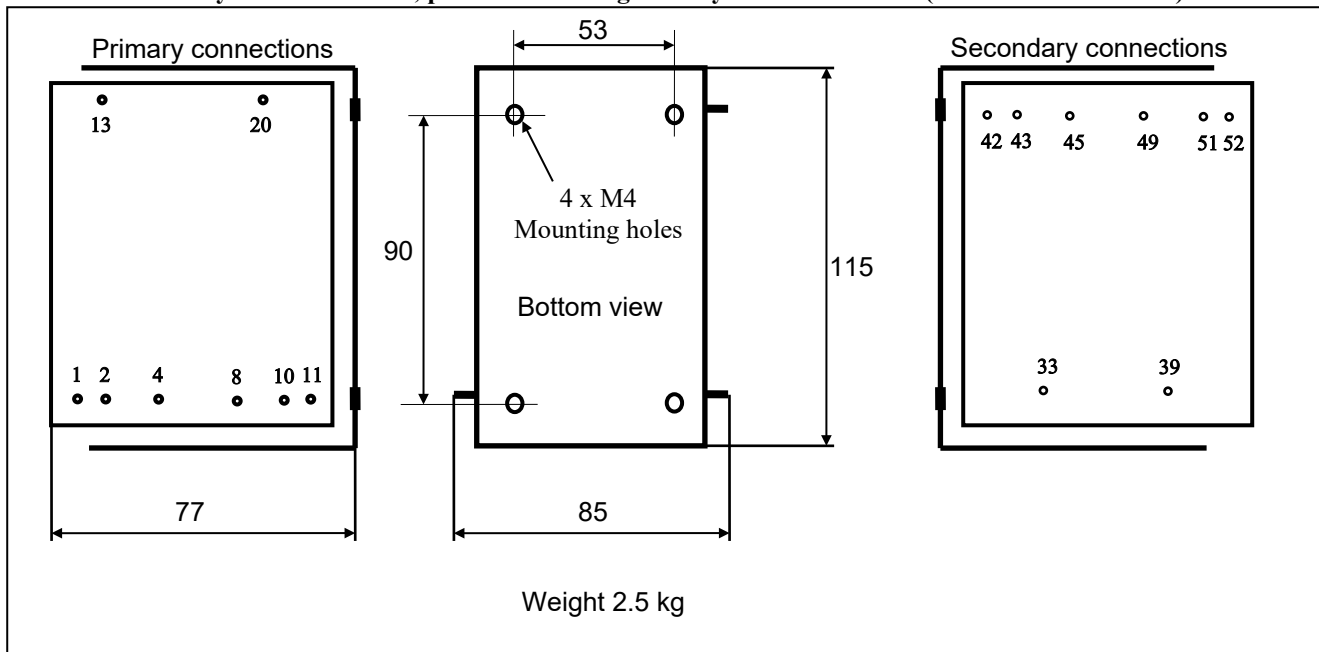


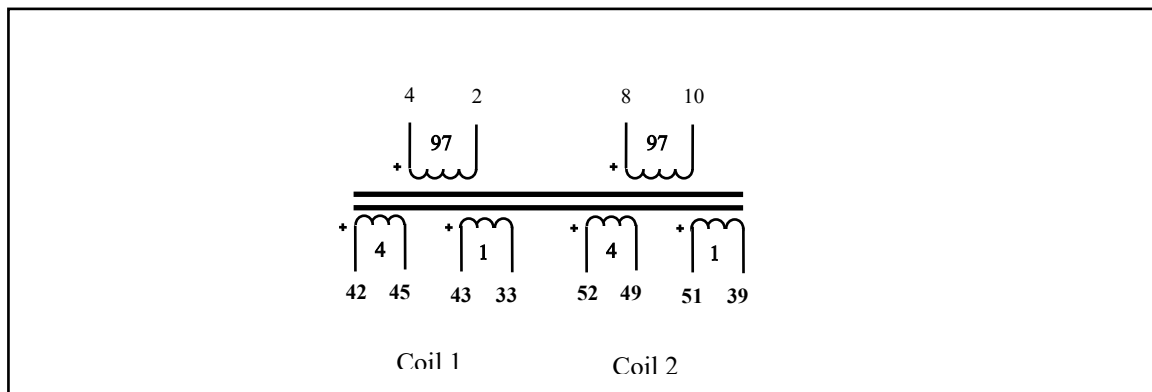
Tube Amplifier Output Transformer LL2785C for 300B and similar triodes in SE applications

The LL2785C is an output transformer for single-end tube amplifiers, suitable for the popular 300B electron tube. 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.

Physical dimensions, pin and mounting hole layout for LL2785C (all dimensions in mm)



Simplified winding schematics:



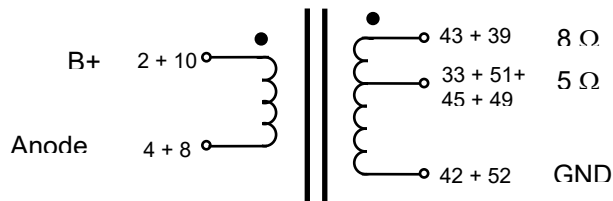
	LL2785C
Turns ratio in application	97:4 for 3kΩ : 5Ω 97:5 for 3kΩ : 8Ω
Static resistance of primary (pins 4 – 2 in parallel with pins 8 – 10 as below)	104 Ω
Static resistance of secondary (connected as below)	0.2 Ω @ 5 Ω configuration 0.25 Ω @ 8 Ω configuration
Primary leakage inductance (primary connected as below, secondary shortcircuited)	10mH
Max recommended primary DC current (heat dissipation 7W)	250 mA

Max. primary <u>signal</u> 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

	LL2785C/60mA	LL2785C/70mA	LL2785C/90mA
Core Airgap (delta/2)	120µm	130µm	170µm
Single end standing current for 0.9 Tesla (recommended operating point)	60mA	70mA	90mA
Primary inductance	33 H	30H	23H

LL2785C
connection for Single-End output



● indicates phase