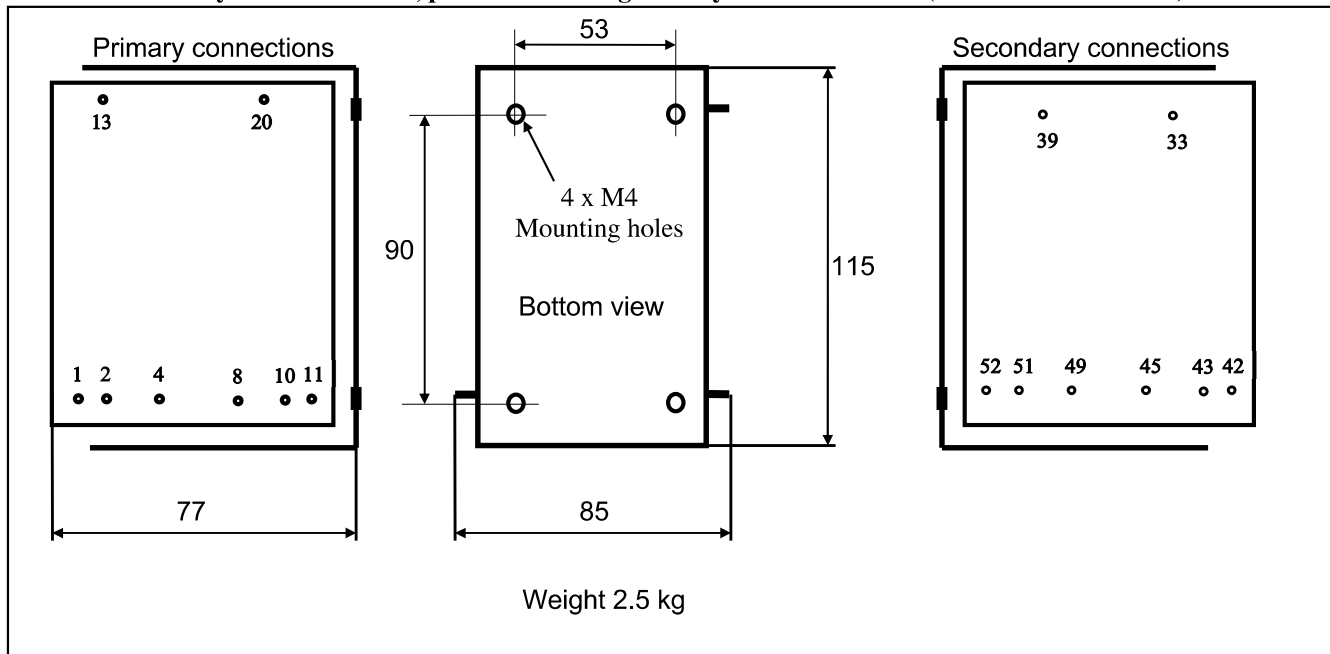


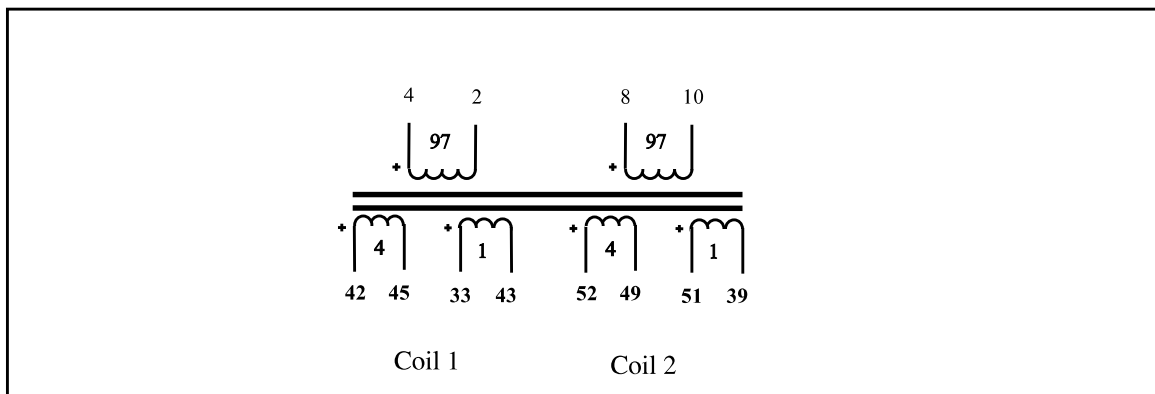
## Tube Amplifier Output Transformer LL2785C for 300B and similar triodes in SE applications

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:



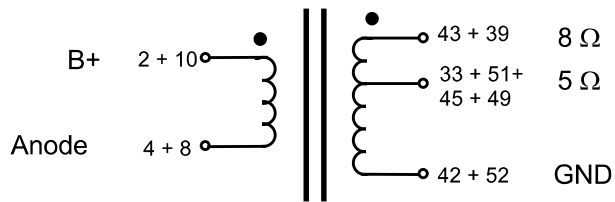
	<b>LL2785C</b>
<b>Turns ratio in application</b>	97:4 for 3k $\Omega$ : 5 $\Omega$ 97:5 for 3k $\Omega$ : 8 $\Omega$
<b>Static resistance of primary</b> (pins 4 – 2 in parallel with pins 8 – 10 as below)	104 $\Omega$
<b>Static resistance of secondary</b> (connected as below)	0.2 $\Omega$ @ 5 $\Omega$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

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

**Primary DC Current Core Air-gap and Primary inductance**

	LL2785C/60mA	LL2785C/70mA	LL2785C/90mA
Core Airgap (delta/2)	120 $\mu$ m	130 $\mu$ m	170 $\mu$ m
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