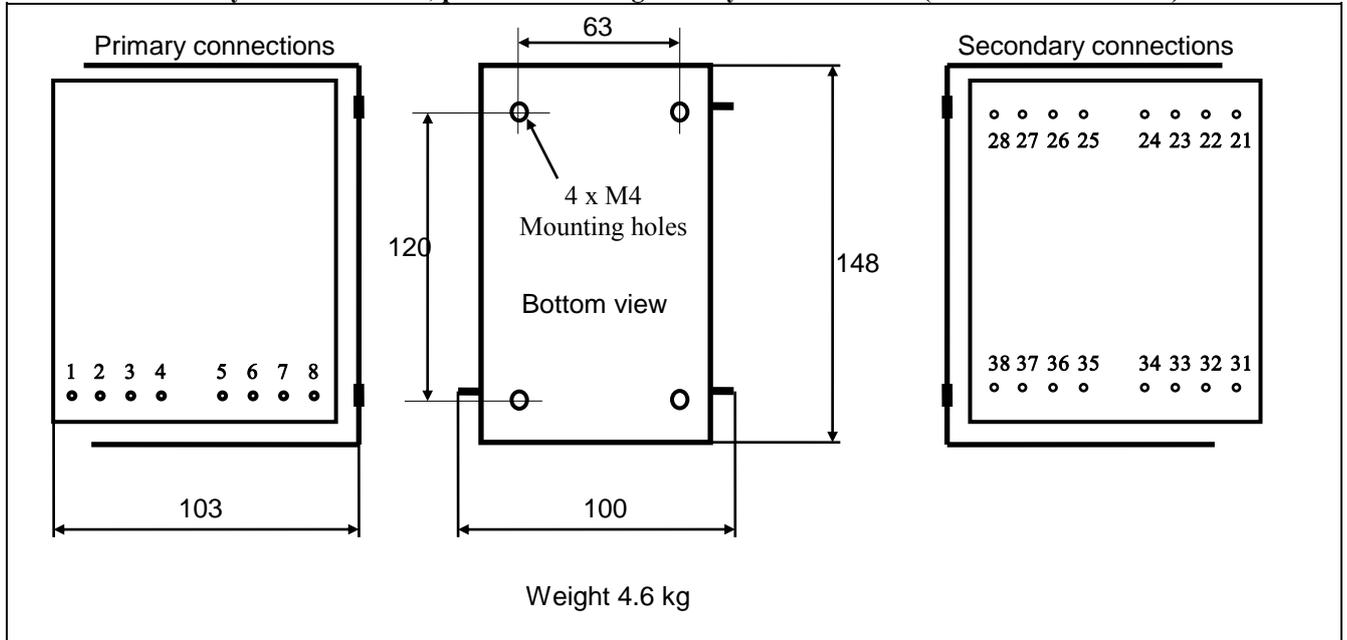


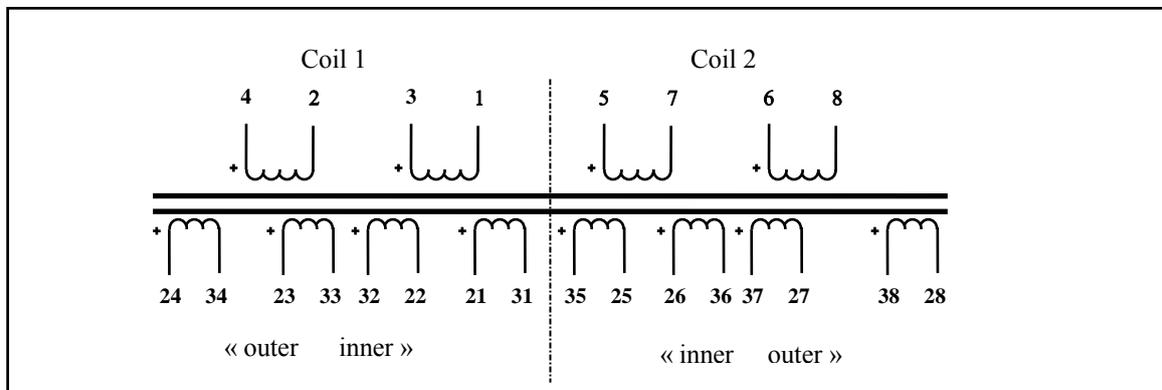
## Tube Amplifier Output Transformer LL2768 (PRELIMINARY)

The LL2768 is a high power tube output transformer primarily for low impedance high power tubes. The transformer is built up from two coils, each consisting of 5 sections. The core is a high quality grain oriented silicon steel C-core from our own production.

**Physical dimensions, pin and mounting hole layout for LL2768 (all dimensions in mm)**



### Winding schematics:



LL2768			
Turns ratio (approx)	4 x 9.2 : 8 x 1		
Static resistance of primary (all in series)	64 Ω		
Static resistance of each secondary winding (approx..)	0.4Ω		
Primary leakage inductance (all in series)	To be measured		
Max recommended primary DC current (heat dissipation 12W)	430 mA		
Max. primary <u>signal</u> voltage r.m.s. at 30 Hz (all in series)	<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; text-align: center; border: none;">Push-Pull 530V</td> <td style="width: 50%; text-align: center; border: none;">Single End 235V</td> </tr> </table>	Push-Pull 530V	Single End 235V
Push-Pull 530V	Single End 235V		

## Electrical characteristics

### Primary Load Impedance, Max power and power loss.

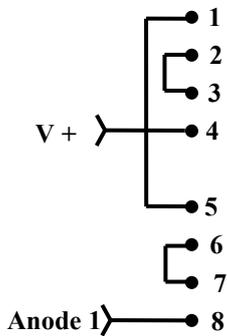
	Sec. connection for 4/8/16 $\Omega$ (See next page)		
	-B/C	B/C/D	C/D/E
	<b>Primary Load Impedance</b> (transformer copper resistance included)		
<b>LL2768</b>	2.7 k $\Omega$	1.2 k $\Omega$	680 $\Omega$
	<b>Power and Loss</b>		
<b>Max. Power, P-P at 30 Hz</b>	180W	360W	700W
<b>Max. Power, S.E. at 30 Hz</b>	35W	70W	140W

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

	LL2768/PP	LL2768/200mA
Core Airgap (delta/2)	25 $\mu$	340 $\mu$
Single end standing current for 0.9 Tesla (recommended operating point)		200mA
Primary inductance	H	H

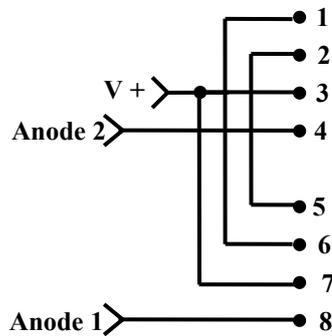
LL2768

Primary connection for Single-End output  
stage



LL2768

Primary connection for Push-Pull output  
stage



## Secondary connections

⊗ Indicates phase

Max secondary Voltage RMS @ 30 Hz	
Push-Pull	Single Ended
Copper resistance	Windings in series

