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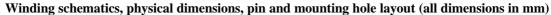
**Domestic** 0176-13930 0176-13935

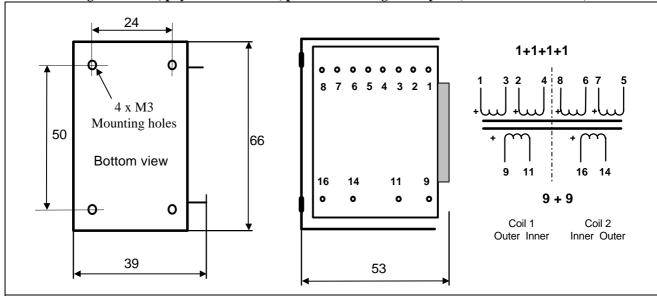
## **Line Output Transformer for Tube Amplifiers** LL1680

The LL1680 line output transformer is made to match or exceed the specs of the UTC transformer LS-27. The LS-27 was used in the RCA Tube Mike Pre (which was used in BC-2B Consoles).

For the internal insulation of the LL1680 high impedance sections we have used paper (and not polypropylene foil) to minimize internal capacitance. Each coil consists of three sections to optimize leakage inductance versus interwinding capacitance. The transformer has a special audio C-core of our own production.

9+9:1+1+1+1**Turns ratio:** 





Weight	Turns ratio	Static resistance,	Static resistance,	Static resistance,	
		winding 9-11 and 16-14	winding 2-4 and 8-6	winding 1-3 and 7-5	
$0.35~\mathrm{Kg}$	9+9:1+1+1+1	$580 \Omega$	$11 \Omega$	15 Ω	

Isolation between primary and secondary windings / between windings and core: 4 kV / 2 kV Max standing DC current through any primary section 50 mA

Туре	LL1680/5mA	LL1680/5mA	LL1680/5mA	LL1680/5mA
Application	15k : 600 ohm	15k : 600 ohm	15k: 150 ohm	15k: 150 ohm
	Balanced output	Unbalanced	Balanced output	Unbalanced
		output		output
Connection	Alt A	Alt B	Alt C	Alt D
Turns ratio	18:4	18:4	18:2	18:2
Primary DC current for 0.9	5mA	5mA	5mA	5mA
Tesla				
Primary Inductance	210H	210H	210H	210H
Frequence response,				
+0, -1.5dB (ref. 1kHz)	15 Hz – 50 kHz	15 Hz – 40 kHz	15 Hz – 55 kHz	15 Hz – 40 kHz
Source impedance	15kΩ	$15 \mathrm{k}\Omega$	15kΩ	$15\mathrm{k}\Omega$
Load	$600 \Omega$	$600 \Omega$	150 Ω	$150 \Omega$
Max primary signal voltage	150V	150V	150V	150V
(RMS) at 30 Hz				
Max output	33V RMS	33VRMS.	16V RMS	16V RMS
voltage @ 30 Hz				



## Tube Amplifier Line Output Transformer LL1680 Connection Alternatives

