

## High Current Tube Amplifier Interstage / Line Output Transformer LL1671

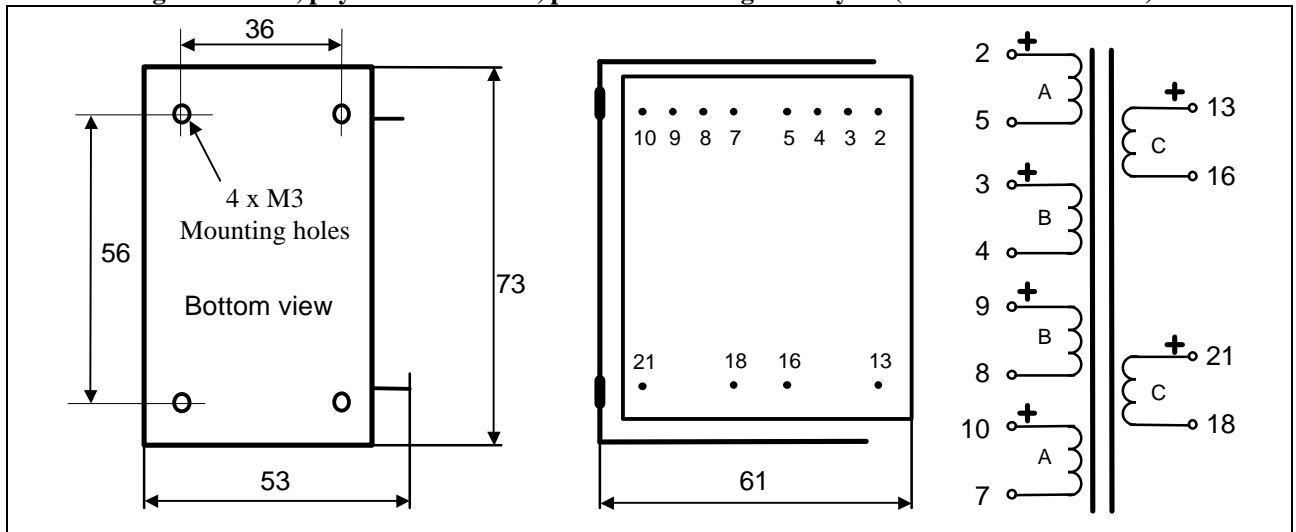
LL1671 is a high current interstage / line output transformer for tube amplifiers. The transformer is available with various core air gaps optimised for PP or SE drives.

The transformer is wound with a special low capacitance winding technique to achieve best high frequency performance. The transformer has a special high flux, low distortion audio C-core of our own production.

The LL1671PP is assembled with a small core air gap to allow for some DC current unbalance.

For the S.E. versions of the LL1671, the core air gap is chosen such that the denoted DC current (30mA for a LL1671/30mA) generates a no signal core flux density of 0.9 Tesla when used with all primaries in series. This leaves a flux density swing of 0.7 T for the signal.

### Winding schematics, physical dimensions, pin and mounting hole layout (all dimensions in mm)



Weight	Turns ratio	Static resistance, Winding A	Static resistance, winding B	Static resistance, winding C
0.75 Kg	1+1+1+1 : 2+2	88 Ω	69 Ω	156 Ω

Max. current through any single section: 100 mA

Isolation between primary and secondary windings / between windings and core: 4 kV / 2 kV

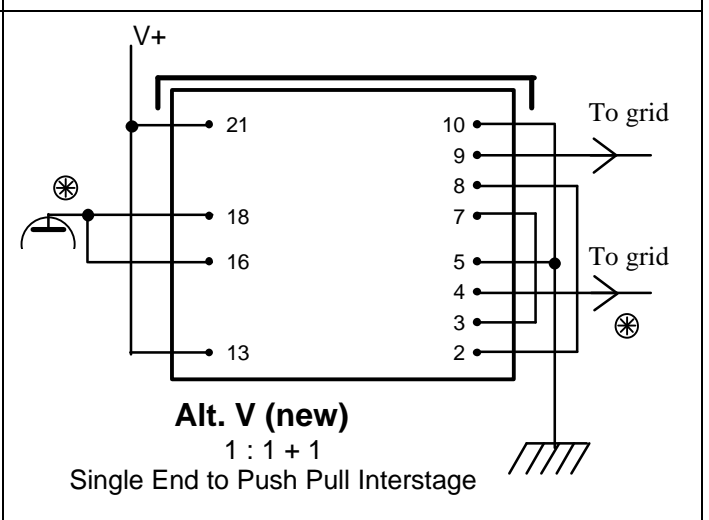
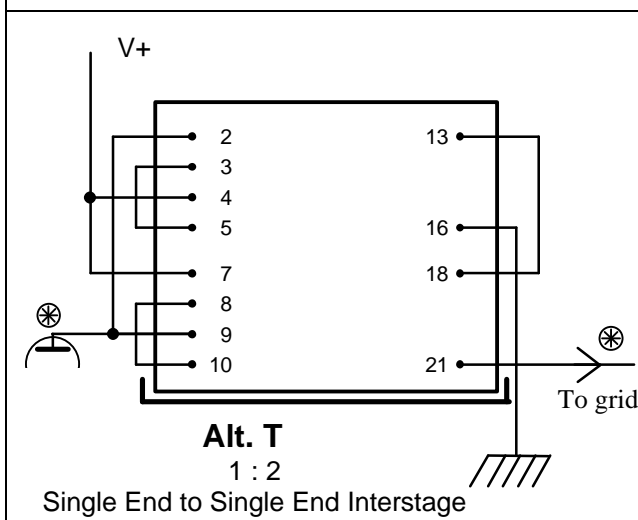
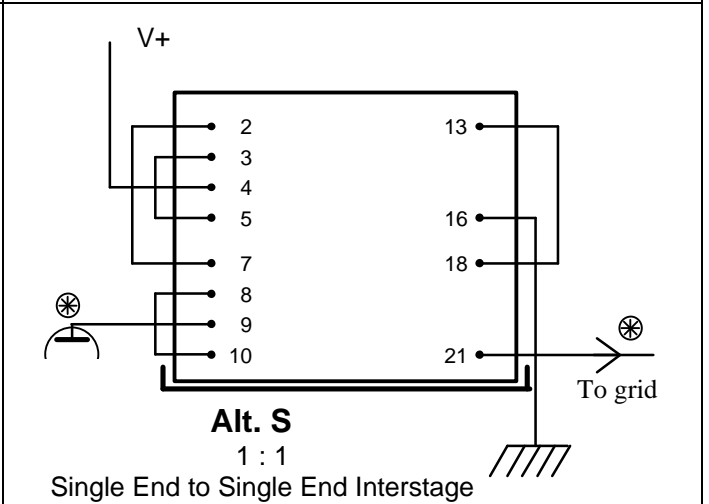
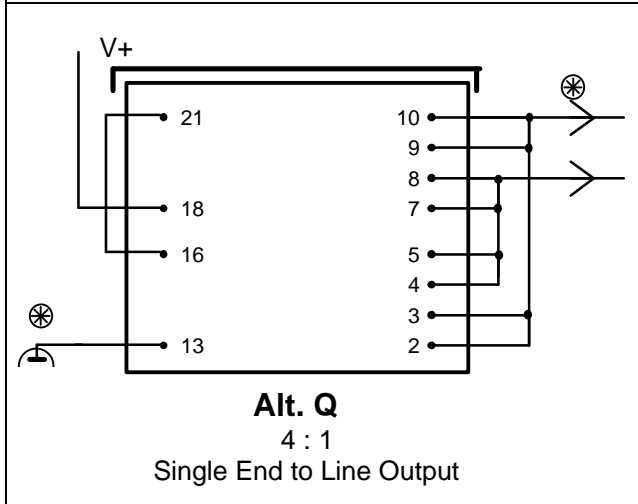
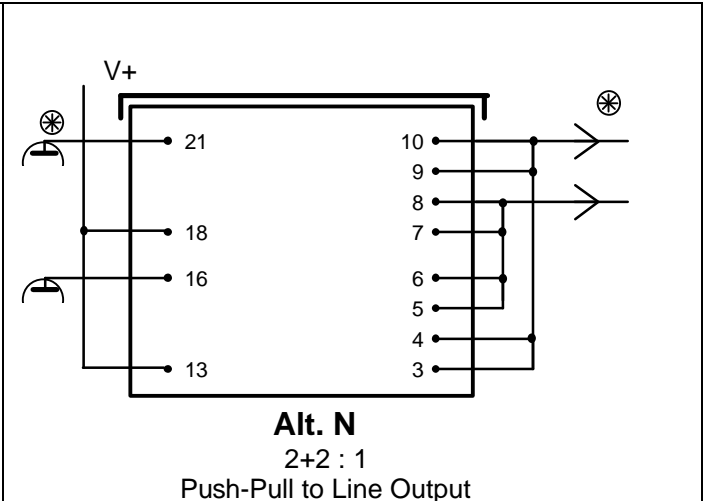
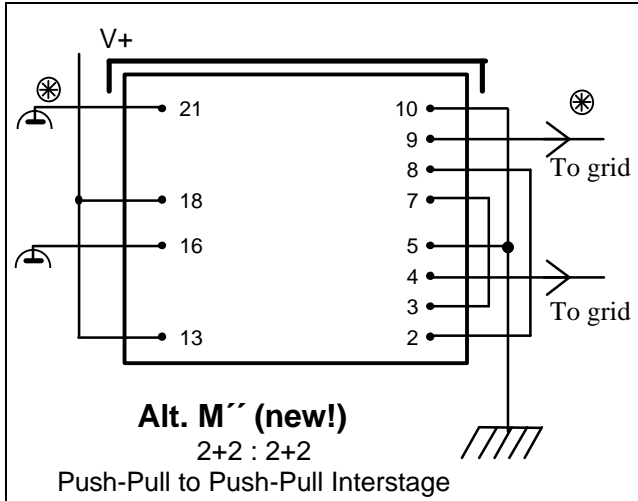
Type	LL1671 PP	LL1671 PP	LL1671/30mA	LL1671/30mA
Connection	Alt M'' PP to PP Interst. 2+2 : 2+2	Alt N PP Line output 2+2 : 1	Alt Q SE Line Output 4 : 1	Alt S SE to SE Interst. 1 : 1
Primary DC current for 0.9 Tesla	-	-	30 mA	30 mA
Primary Inductance	80 H	80 H	35 H	35 H
Freq. Response (+/-1dB) @ source impedance (*) Secondaries open	20 Hz - 25 kHz 5kΩ	15 Hz - 50 kHz 5kΩ		30Hz - 30 kHz 3 kΩ
Max output voltage @ 30 Hz	2 x 150V r.m.s.	75V r.m.s.	33 V r.m.s.	130 V r.m.s.

Type	LL1671/30mA	LL1671/30mA
Connection	Alt T SE to SE Interst. 1 : 2	Alt V SE to PP Interst. 1 : 1 + 1
Primary DC current for 0.9 Tesla	60 mA	60 mA
Primary Inductance	10 H	10 H
Freq. Response (+/-1dB) @ source impedance (*) Secondaries open	40 Hz - 25 kHz 1 kΩ	40 Hz - 25 kHz 1 kΩ
Max output voltage @ 30 Hz	130 V r.m.s.	130 V r.m.s.

(\*) The source impedances used in the tables indicates a recommended upper limit, unless freq. response can be compromised. At lower source impedance resonance peaking will occur. It can be reduced using secondary load resistors.

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**Tube Amplifier Interstage Transformer / Line Output Transformer**  
**LL1671**  
**Connection Alternatives**



⊗ Phase Indicator