

Tube Amplifier Phase Splitting Interstage Transformer LL1660S

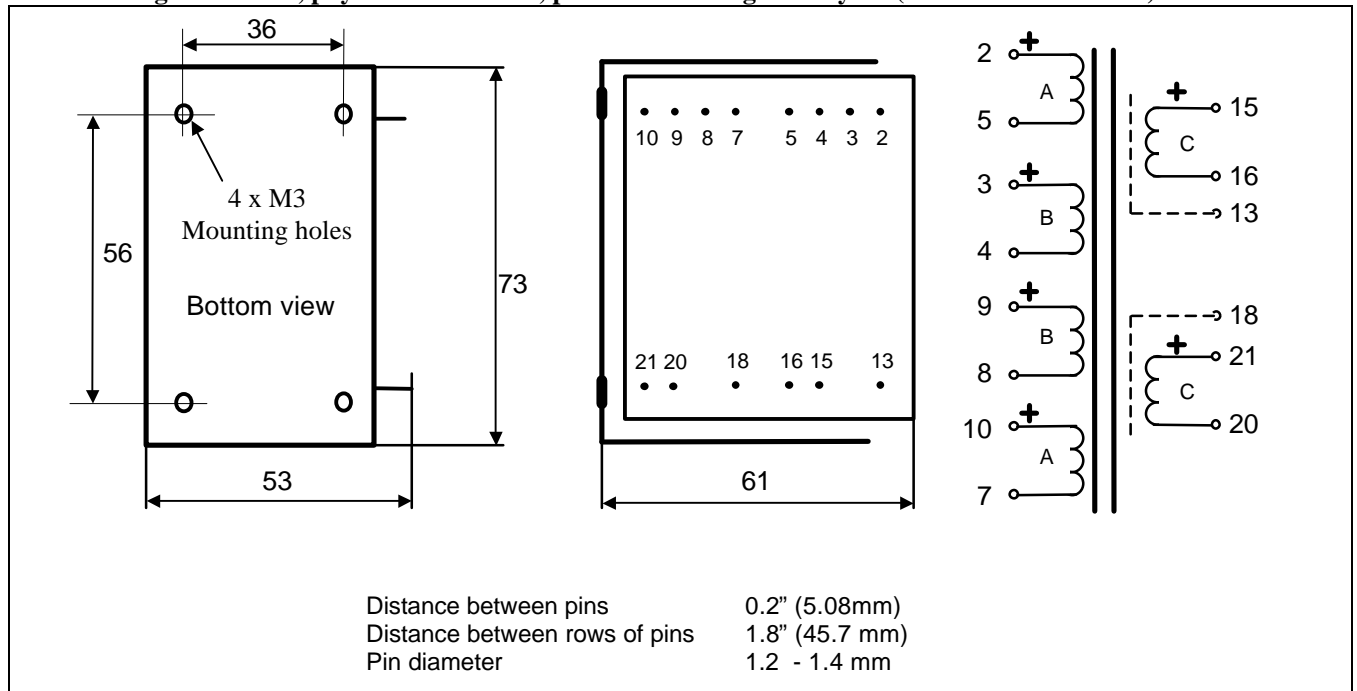
LL1660S is a version of LL1660 with internal Faraday shields to improve balance in phase splitting interstage applications. The transformer is available with different core air gap for different driving tubes.

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 LL1660S is assembled with a small core air gap to allow for some DC current unbalance.

For the LL1660S, the core air gap is chosen such that the denoted DC current (18mA for a LL1660S/18mA) generates a no signal core flux density of 0.9 Tesla when used with windings 2 through 10 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 : 2.25+2.25	315 Ω	240 Ω	625 Ω

Max. current through any single section:

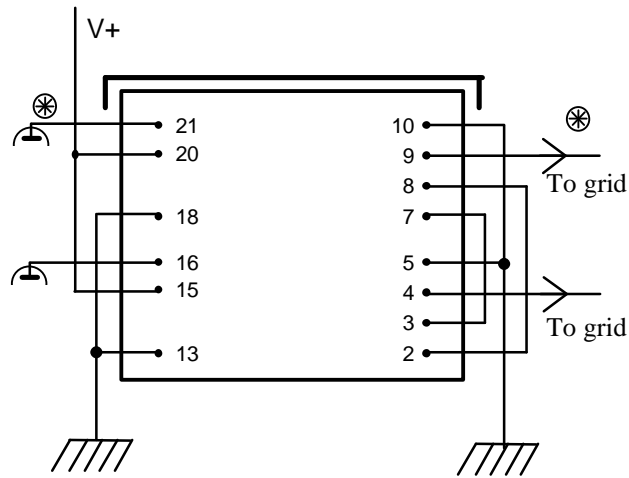
50 mA

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

Type	LL1660S/PP	LL1660S/10mA
Connection	Alt A PP to PP Interst. 2.25+2.25 : 2+2	Alt B SE to PP Interst. 2.25 : 2 + 2
Primary DC current for 0.9 Tesla	-	18 mA
Primary Inductance	290H	42H
Freq. Response (+/-1dB) @ source impedance (*)	20 Hz - 25 kHz 15kΩ	25 Hz - 30 kHz 3.5kΩ
Secondaries open		
Max output voltage @ 30 Hz	2 x 260V r.m.s.	220 V r.m.s.

050-40-100

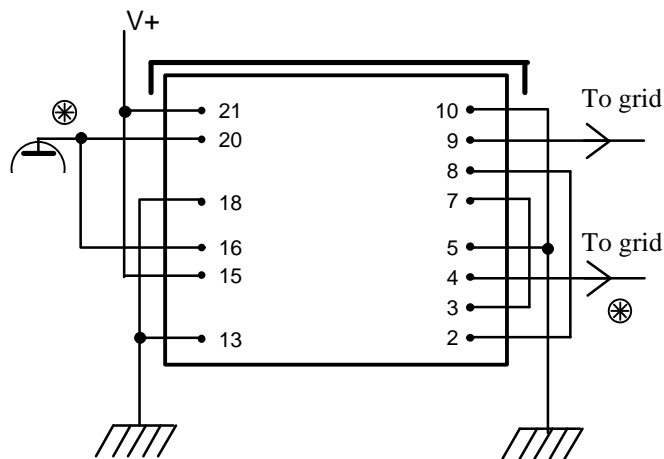
Tube Amplifier Interstage Transformer LL1660S Connection Alternatives



Alt. A

2.25+2.25 : 2+2

Push-Pull to Push-Pull Interstage



Alt. B

2.25 : 2 + 2

Single End to Push Pull Interstage

⊗ Phase Indicator