

5881
6L6WGC

SOVETIOR

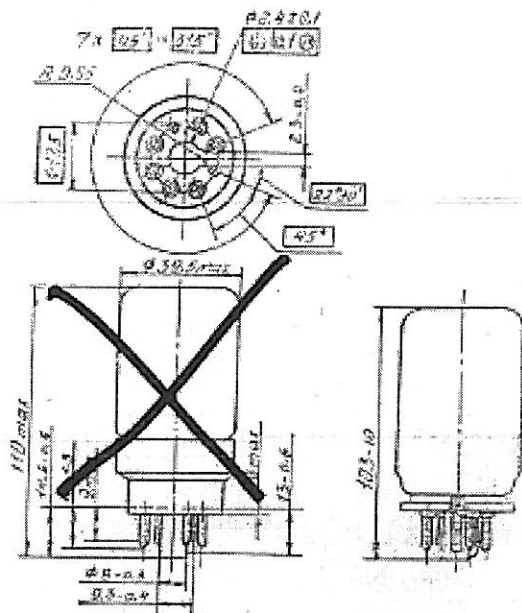
Made in Russia

TUBE ~~REVISION~~

I. GENERAL

Beam tetrode in a glass envelope with an indirectly heated cathode designed for use in final stages of low frequency amplifiers of radiotechnical devices, type ~~6L6WGC~~

Option 1

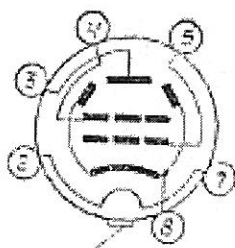


Option 2

See Opt. 1 for other inf.

Mass, max 80g

Terminal Connections



Pin No	Electrodes
2 and 7	Heater
3	Plate
4	Grid No 2
5	Grid No 1
8	Cathode and beam forming screen

Alignment pin
Pin symbols from
bottom view

2. BASIC ELECTRICAL PARAMETERS

Parameter, units	Typical			Remark
	Min	Rate	Max	
Filament current, mA	840	880	920	1
Plate current, mA	60	73	86	1,2,3
Plate current at the characteristic origin, mA			10	1,3,4
Grid No. 1 reverse current, mA			0.5	1,2,3,5
Grid No. 2 current, mA			6	1,2,3
Output power, W		5.8		1,2,3,6
Output power at underheating voltage, W		5		2,3,6,7
Transconductance, mA/V	5.2	6	6.8	1,2,3
Cathode-to-heater insulation resistance, Mohm		4		1,8
Grid No. 1—(cathode+heater) insulation resistance, Mohm		200		9,10,12
Grid No. 1—(plate+grid No. 2) insulation resistance, Mohm		200		9,11,12
Internal resistance, kohm	18	—	75	1,2,3
Nonlinear distortion factor, %			15	1,2,3,6
Input capacitance, pF		11		
Output capacitance, pF		6.7		
Transfer capacitance, pF			1	
Cathode-to-heater capacitance, pF		11		
Readiness time, s			50	1,2,3

Notes:

- Filament voltage 6.3 V.
 - Plate and grid No. 2 voltage 250 V.
 - Grid No. 1 voltage minus 14 V.
 - Grid No. 1 voltage minus 33 V.
 - Grid No. 1 circuit resistance 0.5 Mohm
 - Grid No. 1 alternating r. m. s. voltage 9.8 V; resistance in a plate tuned circuit 2.5 Kohm
 - Filament voltage 5.7 V.
 - Cathode-to-heater voltage ± 250 V.
 - Filament voltage 7 V.
 - Grid No. 1 voltage minus 100 V.
 - Grid No. 1 voltage minus 200 V.
 - All the other electrodes are vacant.
3. Noble metal content:
gold content—1.2314 mg at Grid No. 1 winding.
Non-ferrous metal content:
nickel and its alloys content in a stem assembled.

4. ACCEPTANCE

The tube ~~6L6WGC~~ complies with special specifications

Technical Control Department Stamp

Stamp "Reinspection is made

OTK-8

Date

Technical Control Department Stamp

5 OPERATING INSTRUCTIONS

- When operating the tube it is recommended to keep within the values determining operate conditions, specified by the Special Specs ratings hereto. Otherwise the tube will become inoperative.
- It is not advisable to use the tube in circuits with heater series connection in order to secure the tube reliability.
- The tube shouldn't be operated either if the bulb temperature is over 180 C and the filament voltage is above 6.3 C at the same time.