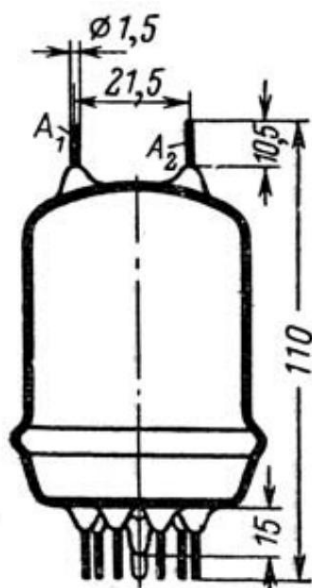


GU-29 - Double generator beam tetrode

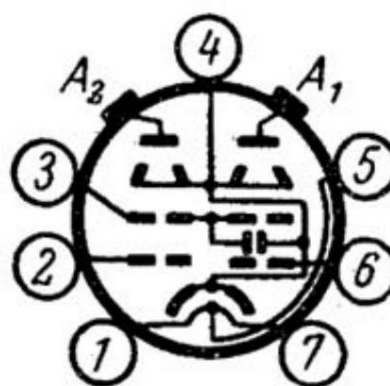


The GU-29 tetrode is designed to amplify power and generating high frequency oscillations. Applied in transmitting devices



Pin assignment GU-29 1 Glow

2	First grid of tetrode #2
3	Second grids
4	Cathodes and beam plates
5	Filament (mid point)
6	Tetrode #1 first grid
7	Filament
A1	Tetrode #1 anode
A2	Tetrode #2 anode



The cathode is indirectly heated oxide. Works in any position. Produced in glass design. Life time - not less than **500** hours. Conclusions of electrodes - pin. Pins - 7.

Interelectrode capacitances, **pF**:

- Input - **15**.
- Output - **7**.
- Checkpoint - no more than **0.1**.

Rated electrical data

Parameter	Value	Tolerance
Glow voltage, V	6.3 or 12.6	2.25
Glow current when heaters are connected in parallel, A		0.25
Glow current when heaters are connected in series, A	1.125	0.125
Anode voltage, V	400	
Voltage on the second grid, V	225	
Current in the anode circuit of each tetrode, mA	60	22
Current in the second grid circuit, mA	10	
The steepness of the characteristics of each tetrode, mA/V	8	
Gain factor of each tetrode relative to the second grid	9	
Vibrational power, W	45	

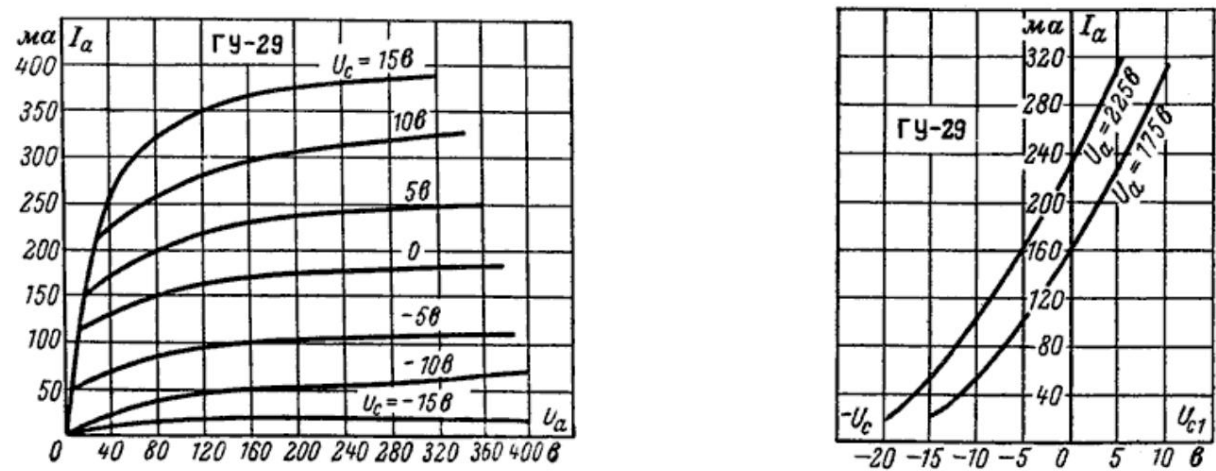
* Under the condition for the tested tetrode, the voltage at the anode should be **250 V**, on the second grid **175 V**, on the first grid **-11 V**, on the first grid of the untested (second) tetrode **-100 V**.

** In a push-pull circuit in self-excitation mode. The total current in the anode circuit is **250 mA**, the current in the second grid circuit is not more than **35 mA**, in the circuit of the first grids **10-15 mA**, the voltage on the second grid is **225 V**, the resistance in the circuit of the first grids is **5-12 kOhm**, the oscillation frequency of the circuit is **200 MHz**.

Maximum allowable electrical values for the GU-29 lamp

The highest heating voltage with parallel connection of heaters, V	7
The lowest heating voltage with parallel connection of heaters, V	5,7
The highest glow voltage when heaters are connected in series, V The lowest glow voltage when heaters are	14
connected in series, V The highest voltage at the anode, V	11,4
	750
The highest voltage on the second grid, V	225
Maximum power continuously dissipated on the anodes, W Maximum power	40
continuously dissipated on the second grid, W Maximum direct voltage between the	7
cathode and heater, V Maximum operating frequency, MHz	100
	200
The highest operating temperature of the cylinder, ° ħ	100
The highest leakage current between the cathode and the heater, ħA	175

Anode characteristic of the GU-29 lamp Anode-grid characteristic of the GU-29 lamp



Operating modes of the GU-29 lamp for linear amplification of SSB signals

Gain class "AB1"_____

- Anode voltage: 750 V • Screen grid voltage: 225 V • Control grid voltage: -25 V • Anode quiescent current: 20 mA • Anode current (maximum signal): 132 mA • Drive voltage amplitude: 25 V • Drive power: 0 W • Load resistance: 3400 Ohm • Useful power: 68 W.

Gain class "B" _____

- Anode voltage: 500 V • Screen grid voltage: 225 V • Control grid voltage: -18 V • Anode quiescent current: 27 mA • Anode current (maximum signal): 230 mA • Drive voltage amplitude: 28 V • Drive power: 0.4 W • Load resistance: 1300 Ohm • Useful power: 76 W.