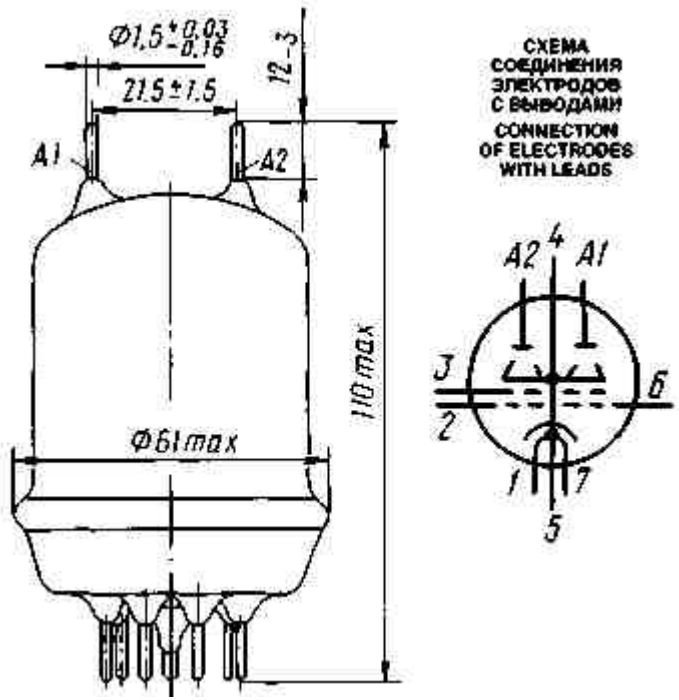
GU-30

DOUBLE BEAM-POWER TETRODE

The GI-30 double beam-power tetrode is used in pulse-operation circuits of RF equipment.

GENERAL
Cathode: indirectly heated, oxide-coated.
Envelope: glass, no-base.
Height: at most 110 mm.
Diameter: at most 61 mm.
Mass: almost 125g.

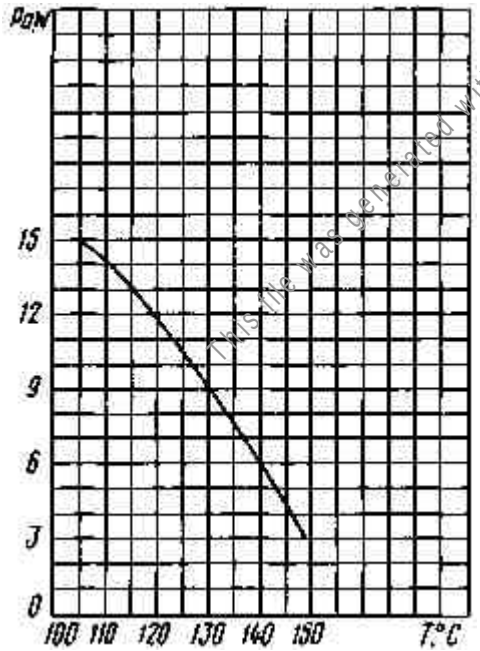


1 **- heater;** ***2*** **- grid 2;** ***3*** **- common grid 2;** ***4*** **- cathode and beam-forming plates;** ***5,7*** **- heater;** ***6*** **- grid 1 of first tetrode;** ***A1*** **- anode of first tetrode;** ***A2*** **- anode of second tetrode**

OPERATING ENVIRONMENTAL CONDITIONS	
Vibration loads:	
frequencies, Hz	20-200
acceleration, m/s²	59
Multiple impacts with acceleration, m/s²	343
Single impacts with acceleration, m/s²	1,470
Linear loads with acceleration, m/s²	240
Ambient temperature, °C	-60 to+135
Relative humidity at up to +40 °C, %	98

BASIC DATA Electrical Parameters	
Heater voltage, V	12.6
Heater current, A	1-1.25
	35-82
Grid 2 current (at anode voltage 250 V, grid 1 voltage -11 V of first tetrode, grid 1 voltage -100 V of second tetrode, grid 2 voltage 175 V), mA, at most	10
Interelectrode capacitance, pF:	
input	13-17
output	5-9
transfer, at most	0.1
Warm up time, s, at most	50
Peak anode current over 1,000 h of service, A, at least	7.5

Limit Operating Values	
Heater voltage, V	11.3-13.9
Anode voltage, kV	5
Grid voltage, V	850
Peak anode current, A	9
Dissipation, W:	
anode	15
grid 2	3
Warm up time, s, at last	60
Envelope temperature, °C	200



Characteristic Curves Showing Anode Dissipation $P_{a\ max}$ versus Ambient Temperature (at bulb temperature T_b 200 °C)

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