

GU-30

DOUBLE BEAM-POWER TETRODE

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

GENERAL

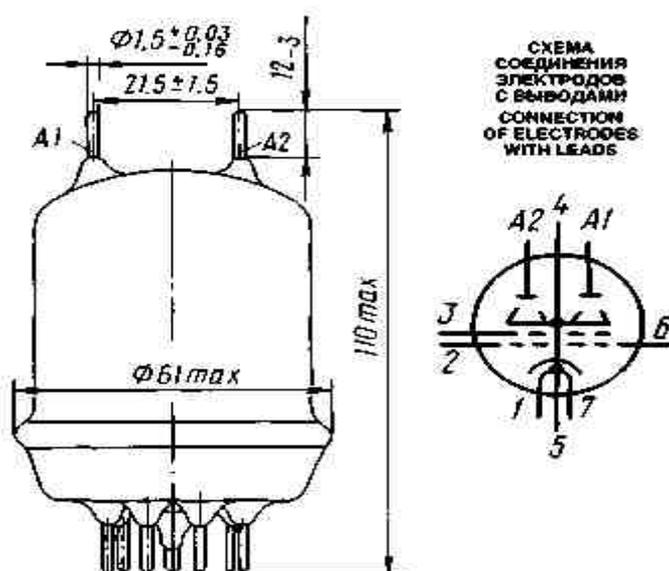
Cathode: indirectly heated, oxide-coated.

Envelope: glass, no-base.

Height: at most 110 mm.

Diameter: at most 61 mm.

Mass: almost 125g.

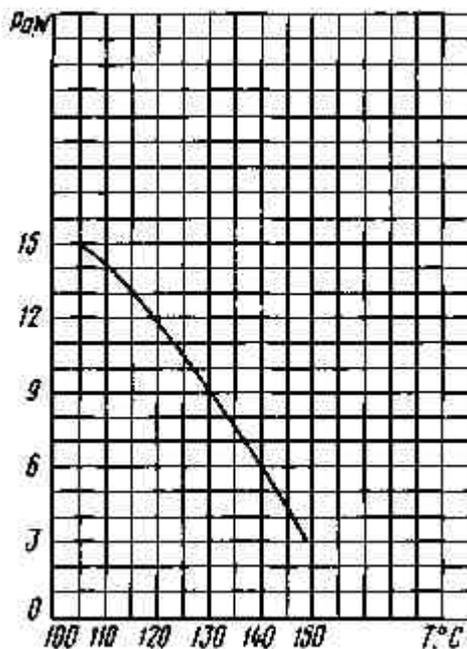


1 - heater; 2 - grid 2; 3 - common grid 2; 4 - cathode and beam-forming plates; 5,7 - heater; 6 - grid 1 of first tetrode; A1 - anode of first tetrode; A2 - anode of second tetrode

OPERATING ENVIRONMENTAL CONDITIONS	
Vibration loads:	
frequencies, Hz	20-200
acceleration, m/s ²	59
Multiple impacts with acceleration, m/s ²	343
Single impacts with acceleration, m/s ²	1,470
Linear loads with acceleration, m/s ²	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
Anode 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	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)