

TETRODE

The GU-34B tetrode is used for wideband power amplification at frequencies up to 250 MHz in RF equipment.

GENERAL

Cathode: indirectly heated, oxide-coated.

Envelope: glass-to-metal.

Cooling: forced air.

Height: at most 125 mm.

Diameter: at most 94 mm.

Mass: at most 1 kg.

KP - cathode and heater

P - heater

C1 - grid 1

C2 - grid 2

A - anode

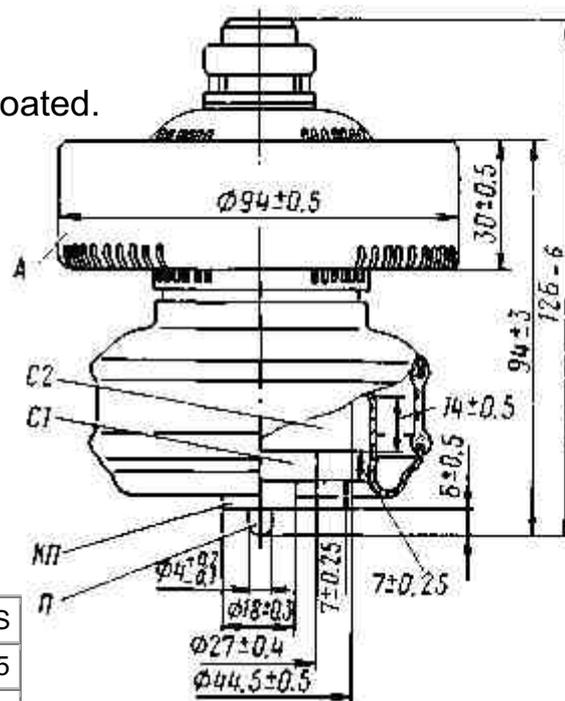
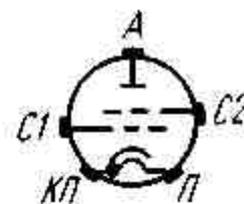


СХЕМА
СОЕДИНЕНИЯ
ЭЛЕКТРОДОВ
С ВЫВОДАМИ
CONNECTION
OF ELECTRODES
WITH LEADS



OPERATING ENVIRONMENTAL CONDITIONS

Ambient temperature, °C	-10 to + 55
Relative humidity at up to +25°C, %	98

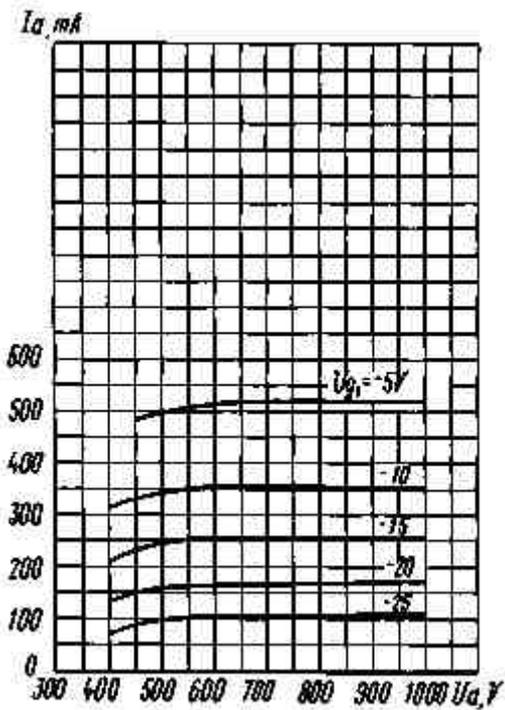
BASIC DATA

Electrical Parameters

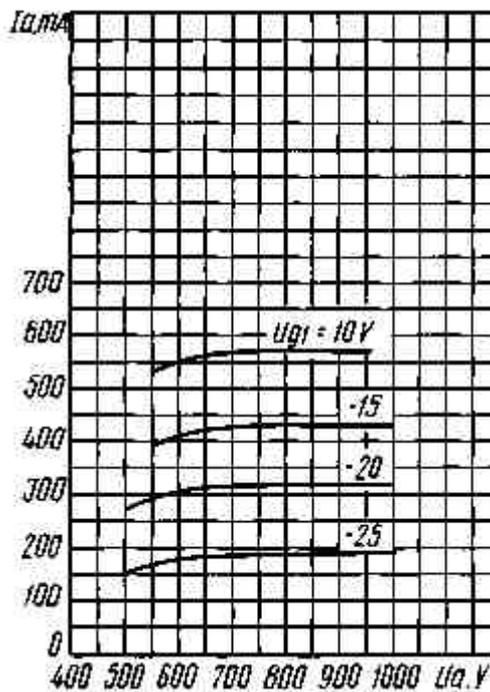
Heater voltage, V	12.6
Heater current, A	3.3-4
Mutual conductance (at anode voltage 1 kV, grid 2 voltage 500 V, anode current 500 mA), mA/V	22-34
Gain coefficient (grid 1 -grid 2, at anode voltage 1 kV, grid 2 voltage 400 -500 V, anode current 500 mA)	19
Cutoff voltage (at anode voltage 1 kV, grid 2 voltage 500 V, anode current 5 mA), V, at most	80
Interelectrode capacitance, pF:	
input, at most	63-73
output, at most	7-11
transfer, at most	0.12
Warm up time, min, at most	2.5
Output power, W, at least	400
Output power over 1.500 h of service, W, at least	320

Limit Operating Values

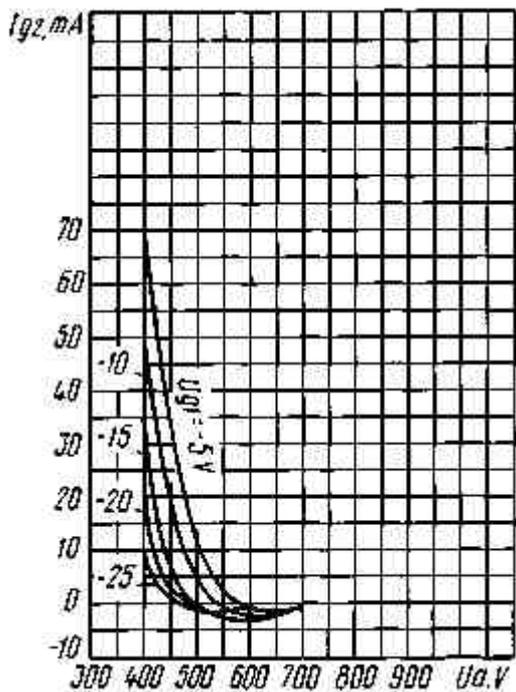
Heater voltage, V	13.9	Dissipation, W:	
Anode voltage, kV	4-103	anode	500
Grid 2 voltage, V	600	grid 2	20
Cathode current (DC component), mA	540	grid 1	5
Frequency, MHz	250	Temperature at anode, stem and seals, °C	150



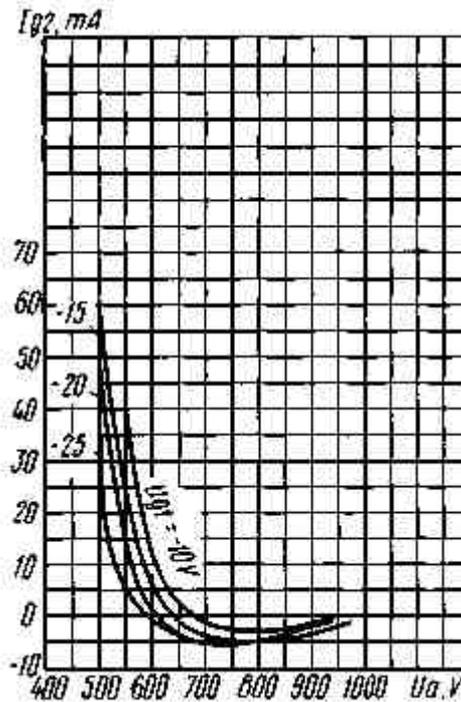
Averaged Anode Characteristic Curves:
 $U_f = 12.6V$; $U_{a2} = 400V$



Averaged Anode Characteristic Curves:
 $U_f = 12.6V$; $U_{a2} = 500V$



Averaged Grid 2-Anode Characteristic Curves:
 $U_f = 12.6V$; $U_{g2} = 400V$



Averaged Grid 2-Anode Characteristic Curves:
 $U_f = 12.6V$; $U_{g2} = 500V$