# TETRODE

# **GU-78B**

The GU-78B tetrode is used for power amplification in distributed amplifiers and single-sideband signal amplifiers at frequencies up to 250 MHz, in RF industrial engineering equipment.

## GENERAL

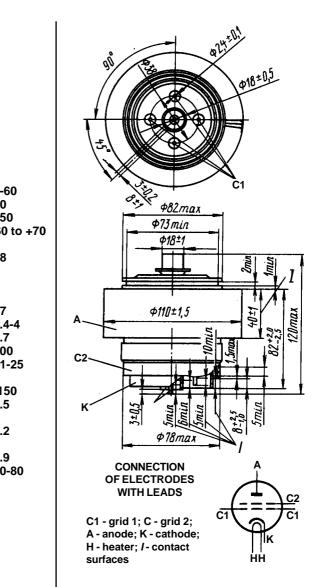
Cathode: indirectly heated, oxide-coated. Envelope: metal ceramic, with ring leads of cathode, grid 2 and anode and pin leads of grid 1. Cooling: forced air. Height: at most 120 mm. Diameter: at most 111 mm. Mass: at most 1.8 kg.

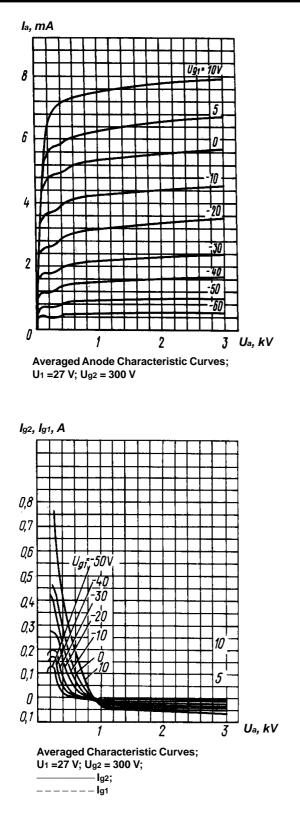
#### **OPERATING ENVIRONMENTAL CONDITIONS**

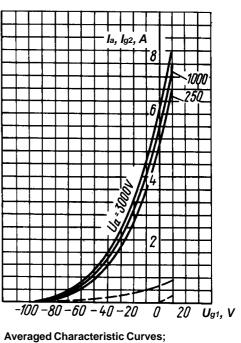
ithout	1-60 20 150 -60 to - 98
	27 3.4-4 1.7 300 51-25
	-150 1.5
ost	4.2
	0.9 40-80
2.5 2.2 pacitance, pF: 100-150 15-30 0.25	
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### **Limit Operating Values**

Heater voltage (AC or DC), V Anode voltage, V:		25.5-28.3
DC	3200	
instantaneous value	6200	
Grid 2 voltage (DC), V		350
Negative grid 1 voltage (DC, absolut	e value), V	150
Cathode-heater voltage (either polar	ity, absolute value), V	150
Cathode current (DC component), r	nĂ	2200
Grid 1 current (DC component), mA	L .	25
Dissipation, W:		
anode	2500	
grid 2	30	
grid 1	1	
Operating frequency, MHz		250
Cathode heating time, s		240
Envelope temperature at hottest poi	nt, °C	200







 Averaged Characteristic Curves;

  $U_1 = 27 V; U_{g2} = 300 V;$  

 \_\_\_\_\_\_\_\_\_ anode-grid;

 \_\_\_\_\_\_\_\_\_ grid 2;

 \_\_\_\_\_\_\_\_\_ grid 1