TETRODE GU-73B

The GU-73B tetrode is used for single-sideband power amplification at frequencies up to 250 MHz.

GENERAL

Cathode: indirectly heated, oxide-coated.

Envelope: metal-to-ceramic.

Cooling: forced air. Height: at most 150 mm. Diameter: at most 101 mm. Mass: almost 150g.

OPERATING ENVIRONMENTAL CONDITIONS

Vibration loads:
frequencies, Hz
acceleration, m/s²
Multiple impacts with acceleration, m/s²
Linear loads with acceleration, m/s²
Lowest permissible ambient temperature, °C
Relative humidity at up to +40 °C, %

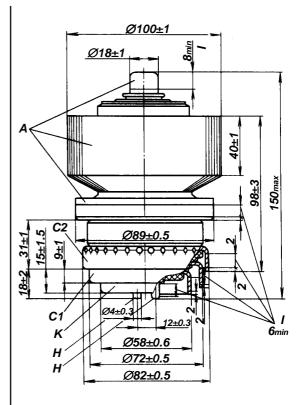
5-80
88
-60
895-98

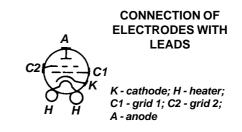
BASIC DATA Electrical Parameters

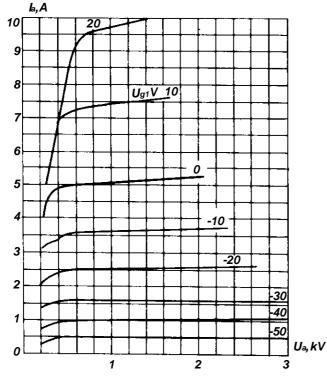
Heater voltage (AC or DC), V Heater current, A	/	27 4.55-5.15
Anode voltage, kV		1.7
Grid 2 voltage, V		250
Negative grid 1 bias voltage,	V	18-40
Negative cutoff voltage, V, at		120
Anode current, A	111000	1.5
Grid 2 current, mA		-130
Mutual conductance, mA/V, a	at least	65
Gain coefficient (grid 1 grid 2)		3-7
Voltage level of combination frequencies of third		0.
and fifth orders (at anode voltage 3 kV, grid 2		
voltage 300 V, anode current 750 mA, grid 2 current at most 110 mA), dB, at most		-30
,, , ,		210
Warm up time, s, at most		210
Oscillatory power under conditions of class AB ₁		
(at anode voltage 3 kV, grid 2 voltage 300 V, anode		
current 750 mA, grid 2 current a	at most 110 mA),	
kW, at least		2.5
Interelectrode capacitance, pF:		
input	190	
output	27	
transfer	0.2	

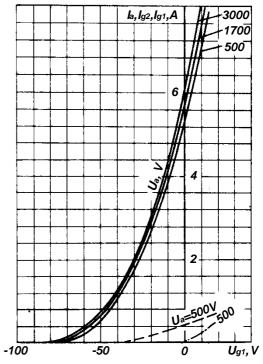
Limit Operating Values

Heater voltage, V	24.7-27.3
Anode voltage (DC), kV	3
Grid 2 voltage (DC), V	325
Negative grid 1 voltage, V	150
Anode dissipation, kW:	
single-sideband signal amplification	2.5
TV signal amplification	3.5
Grid 2 dissipation, W	35
Grid 1 dissipation, W	5
Cathode current (DC component), A	2.2
Anode current (instantaneous value), A	7
Operating frequency, MHz	250
Temperature at anode, stem and seals, °C	200



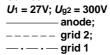


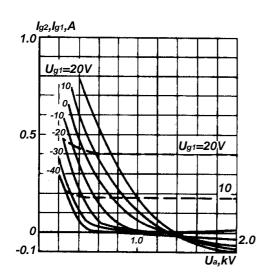




Averaged Anode Characteristic Curves: $U_1 = 27V$; $U_{g2} = 300V$;

Averaged Grid and Anode-Grid Characteristic Curves:





Averaged Grid-Anode Characteristic Curves:

U₁ = 27V; U_{g2} = 300V ————————(I_{g2}); —————— (I_{g1})