TETRODE

GU-33B

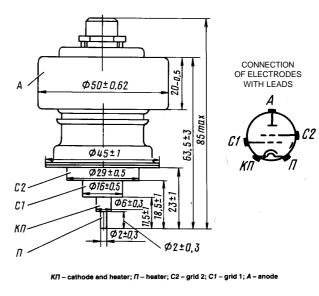
The GU-33B tetrode is designed to operate for wide-band power amplification at frequencies up to 500 MHz in RF equipment.

GENERAL

Cathode: indirectly heated, oxide-coated. Envelope: glass-to-metal. Cooling: forced air. Height: at most 85 mm. Diameter: at most 50 mm. Mass: at most 220 g.

OPERATING ENVIRONMENTAL CONDITIONS

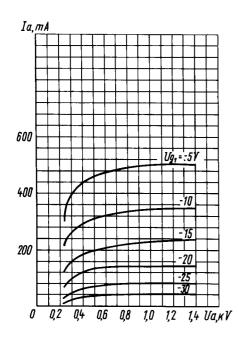
Vibration loads:	
frequencies, Hz	16-60
acceleration, m/s ²	25
Multiple impacts with acceleration, m/s ²	118
Ambient temperature, °C	–10 to +55
Relative humidity at up to 25 °C, %	98



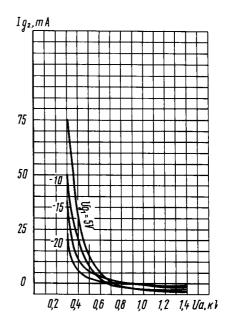
BASIC DATA Electrical Parameters

Heater voltage, V	6.3		
0	4.7-5.6		
Heater current, A		1222222222222222222222222222222222222	20.22
		Itage 300 V, anode current 375 mA), mA/V	20-32
Gain coefficient (at anode voltage 400 V, grid 2 voltage 300 V, anode current 375 mA) Negative bias voltage (at anode voltage 400 V, grid 2 voltage 300 V, anode current 375 mA), V		13	
u	hode voltage 400 v, grid 2 vo	Sitage 300 V, anode current 375 mA), V	0.40
(absolute value), at most Negative cutoff voltage (at anode voltage 1000 V, grid 2 voltage 300 V, anode current 5 mA), V		2-12	
	anode voltage 1000 V, grid 2	2 voltage 300 V, anode current 5 mA), V	
(absolute value), at most	_		60
Interelectrode capacitance,	•		
input, at most	36-46		
output, at most	7-10		
transfer, at most	0.1		
Output power, W, min.:			
		', grid 1 voltage - 40 V, drive voltage 52 V pea	ak value,
grid 2 current at most 40 m	A, anode dissipation at mos	t 150 W, grid 1 dissipation at most 2 W)	120
over 1500 h of service			105
Warm up time (at anode vo	Itage 400 V and grid 2 volta	ge 300 V), min, at most	2.5
Limit Operating Values			
Heater voltage, V		5.7-6.9	

	(DC), V	5.7-6.9 1500 400 340 1000
Dissipation, V	V:	
anode	150	
grid 1	2	
grid 2	10	
Operating fre Temperature	quency, MHz at anode, stem and glass-to-metal seals, °C	500 150



Averaged Anode Characteristic Curves: $U_1 = 6.3 \text{ V}; U_{g2} = 300 \text{ V}$



Averaged Grid - Anode Characteristic Curves: $U_{1} = 6.3 \text{ V}; U_{g2} = 300 \text{ V}$