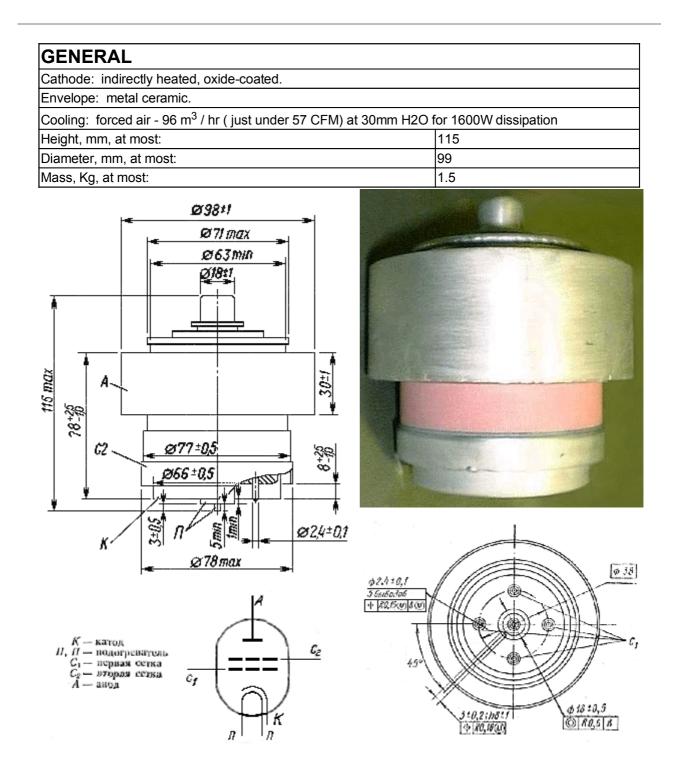
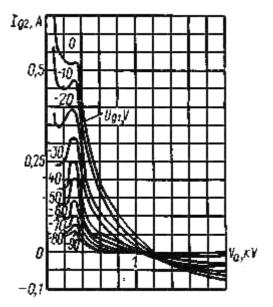
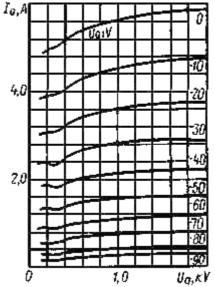


The GU-84B tetrode is used for power amplification in traveling-wave and single-sideband signal amplifier circuits and as power amplifiers in RF equipment up to 250MHz.



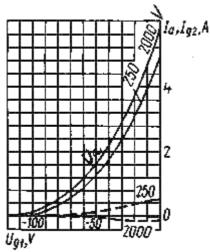
ENVIRONMENTAL OPERATING CONDITIONS			
Vibration loads:			
frequency, Hz	1-80	1-80	
acceleration, m/s <sup>2</sup>	50	50	
Itiple impacts with acceleration, m/s <sup>2</sup> 150			
Ambient Conditions:			
Temperature, °C	-10 to +55		
Relative humidity at up to +35 °C, %	98		
NOMINAL ELECTRICAL PARAMETERS			
Heater voltage, V		27.0	
Heater current, A		3.7	
Mutual conductance ( $V_a = 750V$ , $V_{g2} = 375V$ , $I_a = 2A$ , change in $V_{g1} = 1V$ ), mA/V:		71	
Negative bias ( $V_{g1}$ ) with $V_a$ = 750V, $V_{g2}$ = 375V, $I_a$ > 2A, V:		10-50	
Negative cutoff bias ( $V_{g1}$ ) with $V_a$ = 2KV, $V_{g2}$ = 375V, $I_a$ = 20mA, V:		150	
input capacitance, pF		102.5	
output capacitance, at most, pF		20.5	
transfer capacitance, pF		<0.2	
Warm up time, s:		<180	
$AB_1$ Output, $V_a = 2KV$ , $V_{g2} = 375V$ , $I_{g1} < 0mA$ , $I_{g2} > 80mA$ , frequency 0.1-1 MHz, KW:		>1.5	
Designed Tube Life (hours)		>1500	
ELECTRICAL PARAMETER LIMITS			
Heater voltage, V	25.6-28.4		
Heater current, A	3.4-4.0		
input capacitance, pF	90-115	90-115	
output capacitance, pF	18-23	18-23	
Maximum CW Anode voltage (V <sub>a</sub> ), KV:	2.2	2.2	
"Maximum" Control Grid voltage (V <sub>g1</sub> ), V	-150	-150	
Maximum Screen Grid voltage (V <sub>g2</sub> ), V	400	400	
CW cathode current (I <sub>c</sub> ), A:	2	2	
Peak cathode current (I <sub>c</sub> ), A:	6	6	
Anode Dissipation, W:	2500	2500	
Screen Grid (G2) Dissipation, W:	30	30	
Control Grid (G1) Dissipation, W:	1	1	
Temperature at envelope (hottest point), °C	200	200	
Frequency, MHz:	<250		





Averaged Grid-Anode Characteristic Curves:  $U_f$  = 27V;  $U_{g2}$  = 400V

Averaged Anode Characteristic Curves:  $U_f = 27V; U_{g2} = 400V$ 



Averaged Anode-Grid and Grid Characteristic Curves:  $U_f = 27 \text{ V}; U_{q2} = 400 \text{ V};$