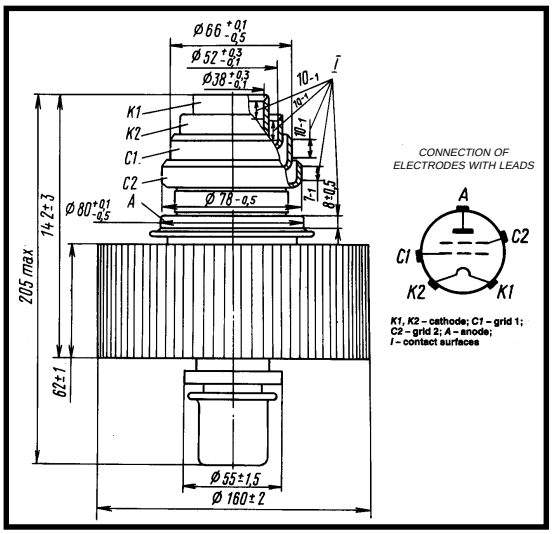
TETRODE GS-17B

The GS-17B tetrode generates and amplifies RF oscillations in the frequency range 1000 MHz.

OPERATING ENVIRONMENTAL CONDITIONS

Vibration loads:	
frequencies, Hz	**5-8**
acceleration, m/s^2	**39**
Multiple impacts with acceleration, m/s^2	**118**
Minimum ambient temperature, °C	**-60**
Relative humidity at +40 °C, %	**95-98**

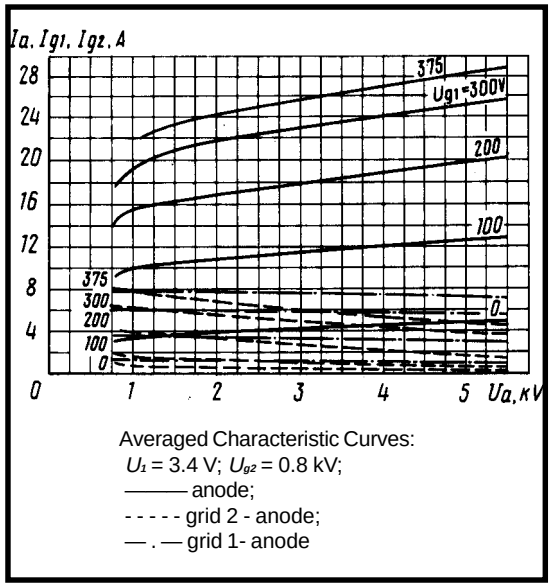


BASIC DATA Electrical Parameters

Filament voltage (AC or DC), V	**3.4**
Filament current, A	**148-172**
Resistance of unheated cathode, Ω, about	**0.0025**
Anode current (at anode voltage 1 kV, grid 2 voltage 0.6 kV), A, at least	**2.5**
Grid 2 current (at anode voltage 1 kV, grid 2 voltage 0.6 kV), A, at most	**0.4**
Negative grid 1 cutoff voltage (absolute value) (at anode voltage 5 kV, grid 2 voltage 0.8 kV, anode current 0.1 A), V, at most	**170**
Mutual conductance (at anode voltage 2 kV, grid 2 voltage 0.8 kV, anode currents 2 and 4A), mA/V	**55**
Gain coefficient (grid 1 - grid 2) (at anode voltage 2 kV, grid 2 voltages 0.8 and 0.6 kV, anode current 2 A)	**7.5-10.5**
Power gain	**5**
Oscillator output power, kW, at least	**4.6**
Interelectrode capacitance, pF:	
input	**55-60**
output	**21-24**
transfer, at most	**0.05**

Limit Operating Values

Filament voltage, V	**7.9-8.7**
Anode voltage (DC),	**12**
Filament starting voltage, A	**250**
Dissipation, W:	
anode	**$1.8\text{-}10^4$**
grid	**500**
Operating frequency, MHz	**2**
Temperature at envelope, stem and seals, °C	**150**
Envelope temperature at the hottest point, °C	**250**



Averaged Characteristic Curves:
U_1 = 3.4 V; U_{g2} = 0.8 kV;
——— anode;
- - - - - grid 2 - anode;
— . — grid 1- anode