TETRODE

GU-36B-1

The GU-36B-1 power tetrode is used for wide-band power amplification at frequencies up to 250 MHz in stationary general-purpose RF equipment.

GENERAL

Cathode: directly heated, carbonized thoriated tungsten.

Envelope: metal-ceramic with ring leads.

Cooling: forced air. Height: at most 300 mm. Diameter: at most 184 mm. Mass: at most 11 kg.

OPERATING ENVIRONMENTAL CONDITIONS

Ambient temperature, °C -10 to +55

Relative humidity at up to +25 °C, % 98

BASIC DATA Electrical Parameters

Filament voltage (AC or DC), V 8.3 Filament current, A 110-130

Mutual conductance (at anode voltage 2 kV,

grid 2 voltage 750 V, anode currents 4 and 6 A), mA/V, at least 70-96

Gain coefficient (at anode voltage 2 kV, grid 2 voltages

750 and 500 V, anode current 4 A) 7-13

Anode current (at anode voltage 2 kV, grid 2

voltage 9000 V) A, at least

Negative cutoff voltage (at anode voltage 7 kV, grid 2

voltage 1200 V, anode current 0.3 A), absolute value, V, at most 220

Interelectrode capacitance, pF:

input, at most 155 output, at most 24 transfer, at most 0.8

Output power (at frequencies up to 250 MHz, anode voltage

at least 6 kV, grid 2 voltage 900 V, bandwidth 8 MHz), kW, at least 10

Limit Operating Values

Filament voltage (AC or DC), V: at up to 50 MHz 8.3 at above 50 MHz 8.0

Filament starting current, A 210

Anode voltage (DC), kV:

at up to 100 MHz 8 at 100-250 MHz 7

Grid 2 voltage (DC), V 1100

Negative grid 1 voltage (instantaneous value), absolute value, V 400

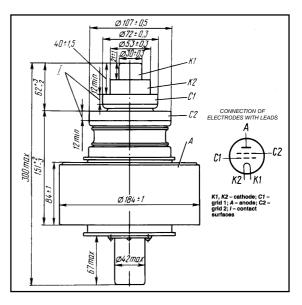
Dissipation, W:

anode 15·10³ grid 1 150 grid 2 300

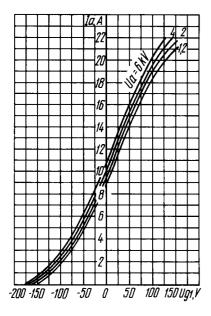
Operating frequency, MHz 250

Temperature, °C:

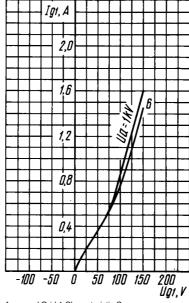
anode 250 stem and ceramic-to-metal seals 175



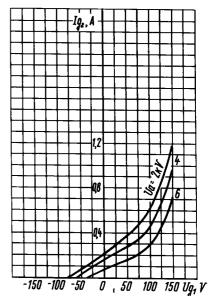
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Averaged Grid 1 Characteristic Curves: $U_1 = 8.3 \text{ V}, U_{g2} = 1.2 \text{ kV}$



Averaged Grid 2 Characteristic Curves: $U_1 = 8.3 \text{ V}, \ U_{g2} = 1.2 \text{ kV}$