TETRODE

GU-43B

The GU-43B tetrode is used for continuous operation at frequencies up to 100 MHz in separately- or self-excited oscillator circuits and as linear power amplifiers in RF equipment.

GENERAL

Cathode: indirectly heated, oxide-coated. Envelope: glass-to-metal. Cooling: forced air. Height: at most 125 mm. Diameter: at most 100 mm. Mass: at most 1.5 kg.

OPERATING ENVIRONMENTAL CONDITIONS

Vibration loads:	
frequencies, Hz	10-200
acceleration, m/s ²	59
frequencies, Hz	200-600
acceleration, m/s ²	20
Multiple impacts with acceleration, m/s ²	343
Linear leads with acceleration, m/s ²	147
Relative humidity at up to +40 °C, %	98

BASIC DATA Electrical Parameters

Heater voltage, V		12.6
Heater current, A		6-7.2
Mutual conductance (at and	de voltage 1 kV,	
grid 2 voltage 350 V, anode	current 1 A,	
grid 1 voltage change ±2.5 V), mA/V		40-50
Negative bias voltage (at an	ode voltage 1 kV,	
grid 2 voltage 350 V, anode	current 1 A), V	20-30
Interelectrode capacitance,	pF:	
input	80-100	
output	10-18	
transfer, at most	0.1	
Cathode heating time, s, at	most	180
Output power (at anode voltage	ge 3 kV, grid 2	
voltage 350 V, anode current	0.9 A), kW, at least	1.6
Output power over 1000 h of service, kW, at least		1.3

Limit Operating Values

Heater voltage. V		11.3-13.9
Anode voltage, kV		3.3
Grid 2 voltage, V		500
Negative grid 1 voltage, V		200
Cathode current, A:		
DC component	1	
peak value	3.2	
Dissipation, W:		
anode	1000	
grid 2	28	
grid 1	5	
Temperature at seals, °C		150





CONNECTION OF ELECTRODES WITH LEADS

KH - cathode and heater; H - heater; C2 - grid 2; C1 - grid 1; A - anode

