PENTODE

GU-50

The GU-50 pentode is used as a RF oscillator and power amplifier in the metric wavelength range in RF equipment.

GENERAL

Cathode: indirectly heated, oxide-coated. Envelope: glass, no-base. Height: at most 93.5 mm. Diameter: at most 45.3 mm. Mass: at most 100g.

98

OPERATING ENVIRONMENTAL CONDITIONS

Ambient temperature, °C Relative humidity at up to +25 °C, %

BASIC DATA Electrical Parameters

Heater voltage, V	12.6
Heater current, A	0.6-0.
Mutual conductance (at anode voltage 800 V,	
grid 2 voltage 250 V, grid 1 voltage increment 5 V,	
anode current 50 mA), mA/V	3-5.5
Bias voltage at operating point, V	25-55
Penetration factor of grid 1 relative to grid 2, %	16-26
Interelectrode capacitance, pF:	
input, at most 13-15	
output, at most 10.3	
transfer, at most 0.1	
Output power, W, max.:	
at anode voltage 800 V, grid 2 voltage 250 V,	
grid 1 voltage -100 V, anode current,	
at most 150 mA	55
over 1750 h of service	40



Limit Operating Values

	11.3-13.9
ent wavelengths, V:	
1000	
800	
700	
600	
	250
de and heater, V	200
40	
5	
1	
C°	200
	ent wavelengths, V: 1000 800 700 600 de and heater, V 40 5 1 °C

