

TRIODE

GK-9B

The GK-9B triode is a RF power amplifier with an output power of up to 30 kW at frequencies up to 2 MHz, designed for use in stationary RF equipment.

GENERAL

Cathode: directly heated, carbonized thoriated tungsten.
 Envelope: glass-to-metal.
 Cooling: forced air.
 Height: at most 338 mm.
 Diameter: at most 218 mm.
 Mass: at most 12 kg.

OPERATING ENVIRONMENTAL CONDITIONS

Ambient temperature, °C **-10/+55**
 Relative humidity at up to 25 °C, % **98**

BASIC DATA Electrical Parameters

Filament voltage, V **8.3**
 Filament current, A **120-150**
 Mutual conductance (at anode voltage 1 kV and anode currents 2 and 12 A), mA/V **42-58**
 Gain coefficient (at anode voltages 4 and 8 kV and anode current 2.5 A) **24-32**
 Negative cutoff voltage (at anode voltage 10 kV and anode current 0.2 A), V, at most **420**
 Interelectrode capacitance, pF, max.:
 input **80**
 output **2**
 transfer **50**

Limit Operating Values

Filament voltage, V **7.9-8.7**
 Anode voltage (DC), **12**
 Filament starting voltage, A **250**
 Dissipation, W:
 anode **1.8-10⁴**
 grid **500**
 Operating frequency, MHz **2**
 Temperature at envelope, stem and seals, °C **150**
 Envelope temperature at the hottest point, °C **250**

