

ELECTRONIC TUBE REFERENCE

GU4A

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
TRIODE

High-power RF triode for oscillator and power-amplifier service. Approximately 2 kW plate dissipation and 6 kV capability provide substantial communications or industrial radio-frequency output from a directly heated transmitting structure.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 8.5 V / —         | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                               |        |
|---------------------------------------------------------------|--------|
| SECTION1 Triode                                               |        |
| MAXIMUM PLATE VOLTAGE                                         | 6000 V |
| MAXIMUM PLATE DISSIPATION                                     | 2000 W |
| MAXIMUM GRID DISSIPATION                                      | 800 W  |
| English text primary; Russian used only to verify/repair OCR. |        |

RF oscillator and power-amplifier triode. Extracted from the English electrical and limit-operating tables of the bilingual datasheet.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1968 Electronintorg

Published test conditions and operating points. Values on this page are preserved as reported by this source.

## 1968 ELECTRONINTORG

## Section 1 · Triode

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Transconductance     | 20000–40000 uS  | —                |
| Amplification Factor | 48–70           | —                |

| CAPACITANCE          |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Input Capacitance    | 40 pF           | max              |
| Output Capacitance   | 1 pF            | max              |
| Transfer Capacitance | 35 pF           | max              |

| OTHER                     |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Minimum Output Power      | 13 kW           | Va=6kV           |
| Filament Starting Current | 218 A           | —                |
| Operating Frequency       | 100 MHz         | —                |