



## ELECTRONIC TUBE REFERENCE

## GU62A

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

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## TRIODE

Water-cooled metal-ceramic power triode for self-excited oscillator and RF power-amplifier circuits. Its carbonized thoriated-tungsten cathode supports approximately 40 kW plate dissipation and 10.5 kV plate operation.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 12 V / —          | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                                                                             |         |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SECTION 1 Triode                                                                                                                                                                                                                            |         |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                                                                       | 10500 V |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                                                                   | 40000 W |
| MAXIMUM GRID DISSIPATION                                                                                                                                                                                                                    | 1800 W  |
| <i>Promoted-field audit performed from English ratings/characteristics; detailed electrical values retained in parameter table. REDO promoted-field audit completed from English Limit Operating Values / Electrical Parameters tables.</i> |         |

The GU-62A triode is used in self-excited oscillator and power-amplifier circuits of RF equipment. It has a directly heated carbonized thoriated-tungsten cathode with water-cooled anode and air-cooled envelope parts.

## 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

| OTHER               |                 |                                                                                                       |
|---------------------|-----------------|-------------------------------------------------------------------------------------------------------|
| PARAMETER           | PUBLISHED VALUE | CONDITION / NOTE                                                                                      |
| cathode [1]         | 1               | and seals). 1, 2, 3, 4 - cathode;                                                                     |
| cathode [2]         | 2               | and seals). 1, 2, 3, 4 - cathode;                                                                     |
| cathode [3]         | 3               | and seals). 1, 2, 3, 4 - cathode;                                                                     |
| cathode [4]         | 4               | and seals). 1, 2, 3, 4 - cathode;                                                                     |
| grid                | 430             | Height: at most 430 mm. C -grid                                                                       |
| temperature, °C [1] | -10 C           | TemnepaTypa okpyxaiowen cpegl, °C .. .....<br>—10+55 Ambient temperature, °C<br>..... —10to +55       |
| temperature, °C [2] | 55 C            | TemnepaTypa okpyxaiowen cpegl, °C .. .....<br>—10+55 Ambient temperature, °C<br>..... —10to +55       |
| temperature, °C [3] | -10 C           | TemnepaTypa okpyxaiowen cpegl, °C .. .....<br>—10+55 Ambient temperature, °C<br>..... —10to +55       |
| temperature, °C [4] | 55 C            | TemnepaTypa okpyxaiowen cpegl, °C .. .....<br>—10+55 Ambient temperature, °C<br>..... —10to +55       |
| anode               | 2 uS            | KpyTusHa xapaKTepycTuki (NPU<br>Hanps>xeHun aHoaa Mutual conductance (at<br>anode voltage 2 kV, anode |
| voltages [1]        | 2 kV            | KoathdmuneHT ycuneHus (npy HanpshkeHUsax<br>aHoga Gain coefficient (at anode voltages 2 and<br>5 kV   |
| voltages [2]        | 5 kV            | KoathdmuneHT ycuneHus (npy HanpshkeHUsax<br>aHoga Gain coefficient (at anode voltages 2 and<br>5 kV   |
| voltage [1]         | 500 A           | Tok aHoAa (Npu HanpsbkeHusx aHoaa 500 B,<br>Anode current (at anode voltage 500 V and                 |

| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE                                                                           |
|--------------------------------|-----------------|--------------------------------------------------------------------------------------------|
| voltage [2]                    | <b>500 A</b>    | Tok aHoAa (Npu HanpsbkeHusx aHoaa 500 B, Anode current (at anode voltage 500 V and         |
| voltage [1]                    | <b>300 V</b>    | ceTkn 300B),A,HemeHee . ..... 10 grid voltage 300 V), A, atleast ..... 10                  |
| voltage [2]                    | <b>10 V</b>     | ceTkn 300B),A,HemeHee . ..... 10 grid voltage 300 V), A, atleast ..... 10                  |
| voltage [3]                    | <b>300 V</b>    | ceTkn 300B),A,HemeHee . ..... 10 grid voltage 300 V), A, atleast ..... 10                  |
| voltage [4]                    | <b>10 V</b>     | ceTkn 300B),A,HemeHee . ..... 10 grid voltage 300 V), A, atleast ..... 10                  |
| anode [1]                      | <b>3 kV</b>     | HanpspxkeHune 3anupanus (npu HanpskeHun aHoaa Cutoff voltage (at anode voltage 8 kV, anode |
| anode [2]                      | <b>8 kV</b>     | HanpspxkeHune 3anupanus (npu HanpskeHun aHoaa Cutoff voltage (at anode voltage 8 kV, anode |
| Interelectrode capacitance, pF | <b>6 pF</b>     | MexanekTpoaHbie emkocTu, nd, He 6onee: Interelectrode capacitance, pF:                     |
| input,atmost [1]               | <b>1</b>        | =) (o 1 1T T 80 input,atmost . ....                                                        |
| input,atmost [2]               | <b>1</b>        | =) (o 1 1T T 80 input,atmost . ....                                                        |
| input,atmost [3]               | <b>80</b>       | =) (o 1 1T T 80 input,atmost . ....                                                        |
| output,atmost                  | <b>28</b>       | BBIXOAHARA . ..ottt ittt 2,8 output,atmost .....                                           |
| current, A [1]                 | <b>6 A</b>      | 6onee30MIMY ... 8 Filament startingcurrent, A ..... 210                                    |
| current, A [2]                 | <b>0 mA</b>     | 6onee30MIMY ... 8 Filament startingcurrent, A ..... 210                                    |
| current, A [3]                 | <b>8 A</b>      | 6onee30MIMY ... 8 Filament startingcurrent, A ..... 210                                    |
| current, A [4]                 | <b>210 A</b>    | 6onee30MIMY ... 8 Filament startingcurrent, A ..... 210                                    |
| Dissipation, kW                | <b>210 kW</b>   | MyckoBon TOK Hakana, A . ..... 210 Dissipation, kW:                                        |
| Anode .. ... .. e              | <b>40</b>       | PacceBaeMas MOLWHOCTL, KBT: Anode .. ... .. e 40                                           |
| grid [1]                       | <b>1</b>        | = T 1T 40 grid . 1.8                                                                       |
| grid [2]                       | <b>40</b>       | = T 1T 40 grid . 1.8                                                                       |
| grid [3]                       | <b>1.8</b>      | = T 1T 40 grid . 1.8                                                                       |
| frequency, MHz [1]             | <b>18 MHz</b>   | CETKOM .. ittt 1,8 Operating frequency, MHz . ..... 85                                     |

| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE                                                                 |
|------------------------------------------|-----------------|----------------------------------------------------------------------------------|
| frequency, MHz [2]                       | <b>85 MHz</b>   | CETKOM .. ittt 1,8 Operating frequency, MHz .<br>..... 85                        |
| Temperature at envelope and stem, °C [1] | <b>85 C</b>     | Pabouasvactota, My ..... 85<br>Temperature at envelope and stem, °C .....<br>180 |
| Temperature at envelope and stem, °C [2] | <b>180 C</b>    | Pabouasvactota, My ..... 85<br>Temperature at envelope and stem, °C .....<br>180 |
| Temperature at seals, °C                 | <b>150 C</b>    | Temnepartypa, °C: Temperature at seals, °C<br>..... 150                          |
| anode; [ ; 'r'i?:lde                     | <b>12</b>       | =12V anode; [ ; 'r'i?:lde                                                        |

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