

ELECTRONIC TUBE REFERENCE

# GI22

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
TRIODE

Russian metal-ceramic oscillator triode using pulsed anode and grid keying in centimetric and decimetric wavelength ranges.

## GENERAL CHARACTERISTICS

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

## SECTION RATINGS

|                                                                                   |
|-----------------------------------------------------------------------------------|
| SECTION1 Triode                                                                   |
| No fixed ratings recorded.                                                        |
| Promoted-field completeness audit performed from English ratings/characteristics. |

The GI-22 triode is used as an oscillator with pulsed anode and grid keying in centimetric and decimetric wavelength ranges; it uses metal-ceramic construction.

## 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                                                                                   |
| pulsed [1]                                       | 22              | WmMnynbCHBIA reHepaTopHbin Tpuog U-22 npepn- The MA-22 triode is used as an oscillator with pulsed |
| pulsed [2]                                       | 22              | WmMnynbCHBIA reHepaTopHbin Tpuog U-22 npepn- The MA-22 triode is used as an oscillator with pulsed |
| Cathode: indirectly heated, oxide-coated. Q2 [1] | 34              | Cathode: indirectly heated, oxide-coated. Q234-p5 —1                                               |
| Cathode: indirectly heated, oxide-coated. Q2 [2] | -1              | Cathode: indirectly heated, oxide-coated. Q234-p5 —1                                               |
| temperature, °C [1]                              | 490 C           | JIMHEMHDBIE . . . . . i i 490 Ambient temperature, °C . . . . . —60to +100                         |
| temperature, °C [2]                              | -60 C           | JIMHEMHDBIE . . . . . i i 490 Ambient temperature, °C . . . . . —60to +100                         |
| temperature, °C [3]                              | 100 C           | JIMHEMHDBIE . . . . . i i 490 Ambient temperature, °C . . . . . —60to +100                         |
| voltage                                          | 200 uS          | KpyTuaHa xapakTepucTpu (Npy HanpshkeHum Mutual conductance (at anode voltage 200 V,                |
| current [1]                                      | 200 mA          | aHopa 200 B, Toke aHoga 30 MA), MA/B . . . . . .. 15-18 anode current 30 mA), mA/N .. .. Ll 15-18  |
| current [2]                                      | 30 mA           | aHopa 200 B, Toke aHoga 30 MA), MA/B . . . . . .. 15-18 anode current 30 mA), mA/N .. .. Ll 15-18  |
| current [3]                                      | 15 mA           | aHopa 200 B, Toke aHoga 30 MA), MA/B . . . . . .. 15-18 anode current 30 mA), mA/N .. .. Ll 15-18  |
| current [4]                                      | -18 mA          | aHopa 200 B, Toke aHoga 30 MA), MA/B . . . . . .. 15-18 anode current 30 mA), mA/N .. .. Ll 15-18  |

| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                                                                                     |
|---------------------------|-----------------|------------------------------------------------------------------------------------------------------|
| current [5]               | <b>30 mA</b>    | aHopa 200 B, Toke aHoga 30 MA), MA/B . ... ..<br>.. 15-18 anode current 30 mA), mA/N .. ... Ll 15-18 |
| current [6]               | <b>15 mA</b>    | aHopa 200 B, Toke aHoga 30 MA), MA/B . ... ..<br>.. 15-18 anode current 30 mA), mA/N .. ... Ll 15-18 |
| current [7]               | <b>-18 mA</b>   | aHopa 200 B, Toke aHoga 30 MA), MA/B . ... ..<br>.. 15-18 anode current 30 mA), mA/N .. ... Ll 15-18 |
| grid                      | <b>0</b>        | Pabouas To4ka (OOTpulaTensHoe HanpskeHue<br>Operating point (negative grid                           |
| current [1]               | <b>200 A</b>    | CeTKu Npu HanpskeHuu aHoaa 200 B, Toxe<br>voltage at anode voltage 200 V, anode current              |
| current [2]               | <b>200 A</b>    | CeTKu Npu HanpskeHuu aHoaa 200 B, Toxe<br>voltage at anode voltage 200 V, anode current              |
| current [1]               | <b>200 mA</b>   | HanpshkeHun aHoga 200 B, Toke aHoga 0,1<br>MA), voltage 200 V, anode current 0.1 mA),                |
| current [2]               | <b>1 mA</b>     | HanpshkeHun aHoga 200 B, Toke aHoga 0,1<br>MA), voltage 200 V, anode current 0.1 mA),                |
| current [3]               | <b>200 mA</b>   | HanpshkeHun aHoga 200 B, Toke aHoga 0,1<br>MA), voltage 200 V, anode current 0.1 mA),                |
| current [4]               | <b>0.1 mA</b>   | HanpshkeHun aHoga 200 B, Toke aHoga 0,1<br>MA), voltage 200 V, anode current 0.1 mA),                |
| output,atmost . ... L [1] | <b>4</b>        | BbIxOA4HAsA, He bonee ..... 0,04<br>output,atmost . ... L. 0.04                                      |
| output,atmost . ... L [2] | <b>0.04</b>     | BbIxOA4HAsA, He bonee ..... 0,04<br>output,atmost . ... L. 0.04                                      |
| current [1]               | <b>16 A</b>     | (npv Hanps>xeHun aHoga 1,6 kB, Toke aHoga<br>1.6 kV, peak anode current 1.4 A, 1/duty factor         |
| current [2]               | <b>1.6 A</b>    | (npv Hanps>xeHun aHoga 1,6 kB, Toke aHoga<br>1.6 kV, peak anode current 1.4 A, 1/duty factor         |
| current [3]               | <b>1.4 A</b>    | (npv Hanps>xeHun aHoga 1,6 kB, Toke aHoga<br>1.6 kV, peak anode current 1.4 A, 1/duty factor         |
| current [4]               | <b>1 A</b>      | (npv Hanps>xeHun aHoga 1,6 kB, Toke aHoga<br>1.6 kV, peak anode current 1.4 A, 1/duty factor         |
| pulse duration at most    | <b>1 V</b>      | MaHunynaumn, KB L 1 Peak anode voltage<br>{(with pulse duration at most                              |
| pulse duration at most    | <b>6 V</b>      | ANMTENBHOC TM UMNYNbCa He 6onee Peak<br>grid voltage (with pulse duration at most                    |
| anode [1]                 | <b>6</b>        | wmnynbca He 6onee 1 MKe), A ... .. 2<br>anode ... 10                                                 |

| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE                                                            |
|-------------------------|-----------------|-----------------------------------------------------------------------------|
| anode [2]               | <b>1</b>        | wmnynbca He 6onee 1 MKe), A ... .. 2<br>anode ... 10                        |
| anode [3]               | <b>2</b>        | wmnynbca He 6onee 1 MKe), A ... .. 2<br>anode ... 10                        |
| anode [4]               | <b>10</b>       | wmnynbca He 6onee 1 MKe), A ... .. 2<br>anode ... 10                        |
| Wavelength, cm, atleast | <b>10 cm</b>    | AHOAOM .. ot o it 10 Wavelength, cm, atleast<br>.....                       |
| CETKOWM . .ottts [1]    | <b>1</b>        | CETKOWM . .ottts 0,1 1/duty factor,atleast .....<br>... .. oL 800           |
| CETKOWM . .ottts [2]    | <b>1</b>        | CETKOWM . .ottts 0,1 1/duty factor,atleast .....<br>... .. oL 800           |
| CETKOWM . .ottts [3]    | <b>800</b>      | CETKOWM . .ottts 0,1 1/duty factor,atleast .....<br>... .. oL 800           |
| heatingtime,s           | <b>5 s</b>      | OnvHa BOMHbI, CM, HE MEHEE . . . . .<br>..... 5 Cathode heatingtime,s ..... |
| temperature,°C          | <b>800 C</b>    | CKBaXXHOCTb, HE MEHEE . . . . . 800<br>Envelope temperature,°C . ....       |

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