

ELECTRONIC TUBE REFERENCE

# GI15B

Specialized - Microwave Tube electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian metal-ceramic microwave triode for oscillator and amplifier service in continuous-wave or pulsed centimetric and decimetric-wave operation.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | —             |
| NOMINAL HEATER      | 12.6 V / —        | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                   |        |
|-----------------------------------------------------------------------------------|--------|
| SECTION1 Triode                                                                   |        |
| MAXIMUM PLATE VOLTAGE                                                             | 4000 V |
| Promoted-field completeness audit performed from English ratings/characteristics. |        |

The GI-15B microwave triode is used as an oscillator and amplifier in continuous-wave or pulsed operation with anode modulation in centimetric and decimetric wavelength ranges; it is metal-ceramic and forced-air cooled.

## 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]  | 156             | Ho Tpuopg N'N-156 (T'-150) npegHasHa4eH AN reHe- oscillator and an amplifier in continuous-wave or pulsed |
| pulsed [2]  | -150            | Ho Tpuopg N'N-156 (T'-150) npegHasHa4eH AN reHe- oscillator and an amplifier in continuous-wave or pulsed |
| anode       | 7               | KIT - cathode and heater; /7 — heater; C - grid; A — anode                                                |
| voltage     | 400 uS          | KpyTuaHa xapakTepucTiki (Npyu HaNpsKeHUun Mutual conductance (at anode voltage 400 V,                     |
| current [1] | 400 A           | aHoga 400 B, nameHeHnn HanpsiXxerus CeTKn grid voltage change +0.5 V, anode current                       |
| current [2] | 500 mA          | aHoga 400 B, nameHeHnn HanpsiXxerus CeTKn grid voltage change +0.5 V, anode current                       |
| anode [1]   | 8 V             | MA/B . 8-12 Penetration factor (at anode voltage 400 V, anode                                             |
| anode [2]   | -12 V           | MA/B . 8-12 Penetration factor (at anode voltage 400 V, anode                                             |
| anode [3]   | 400 V           | MA/B . 8-12 Penetration factor (at anode voltage 400 V, anode                                             |
| current [1] | 400 mA          | MpoHraemMocTs (Npu HaNpsHKeHuy aHoaa 400 B, voltage change 400 V, anode current 15 mA), % .. 0.7-1.5      |
| current [2] | 400 mA          | MpoHraemMocTs (Npu HaNpsHKeHuy aHoaa 400 B, voltage change 400 V, anode current 15 mA), % .. 0.7-1.5      |
| current [3] | 15 mA           | MpoHraemMocTs (Npu HaNpsHKeHuy aHoaa 400 B, voltage change 400 V, anode current 15 mA), % .. 0.7-1.5      |

| PARAMETER                | PUBLISHED VALUE | CONDITION / NOTE                                                                                     |
|--------------------------|-----------------|------------------------------------------------------------------------------------------------------|
| current [4]              | <b>0.7 mA</b>   | MpoHraemMocTs (Npu HaNpsHKeHuy aHoaa 400 B, voltage change 400 V, anode current 15 mA), % .. 0.7-1.5 |
| current [5]              | <b>-1.5 mA</b>  | MpoHraemMocTs (Npu HaNpsHKeHuy aHoaa 400 B, voltage change 400 V, anode current 15 mA), % .. 0.7-1.5 |
| anode                    | <b>400 V</b>    | U3MeHeHnW HanpskeHust aHoaa Ha 400 B, Toke Operating point (negative grid voltage at anode           |
| current [1]              | <b>15 mA</b>    | aHoAa 15 MA), % ... 0,7-1,5 voltage 400 V, anode current 15mA), V. ... 4-2                           |
| current [2]              | <b>7 mA</b>     | aHoAa 15 MA), % ... 0,7-1,5 voltage 400 V, anode current 15mA), V. ... 4-2                           |
| current [3]              | <b>-15 mA</b>   | aHoAa 15 MA), % ... 0,7-1,5 voltage 400 V, anode current 15mA), V. ... 4-2                           |
| current [4]              | <b>400 mA</b>   | aHoAa 15 MA), % ... 0,7-1,5 voltage 400 V, anode current 15mA), V. ... 4-2                           |
| current [5]              | <b>15 mA</b>    | aHoAa 15 MA), % ... 0,7-1,5 voltage 400 V, anode current 15mA), V. ... 4-2                           |
| current [6]              | <b>4 mA</b>     | aHoAa 15 MA), % ... 0,7-1,5 voltage 400 V, anode current 15mA), V. ... 4-2                           |
| current [7]              | <b>-2 mA</b>    | aHoAa 15 MA), % ... 0,7-1,5 voltage 400 V, anode current 15mA), V. ... 4-2                           |
| input [1]                | <b>400</b>      | npn HanpsixeHwn aHoaa 400 B, Toke aHoaa input ... 9.5-11.5                                           |
| input [2]                | <b>9.5</b>      | npn HanpsixeHwn aHoaa 400 B, Toke aHoaa input ... 9.5-11.5                                           |
| input [3]                | <b>-11.5</b>    | npn HanpsixeHwn aHoaa 400 B, Toke aHoaa input ... 9.5-11.5                                           |
| output,atmost ... oL [1] | <b>15</b>       | 15MA),B 4-2 output,atmost ... oL,                                                                    |
| output,atmost ... oL [2] | <b>4</b>        | 15MA),B 4-2 output,atmost ... oL,                                                                    |
| output,atmost ... oL [3] | <b>-2</b>       | 15MA),B 4-2 output,atmost ... oL,                                                                    |
| power, W                 | <b>4 W</b>      | BbIXOAHasA, Hebonee ..... 0,04 Output power, W:                                                      |
| power over               | <b>200 W</b>    | MouyHocTb BbixOAHas, BT: Output power over 200 h of service, W ..                                    |
|                          |                 |                                                                                                      |

| PARAMETER                                  | PUBLISHED VALUE | CONDITION / NOTE                                                                        |
|--------------------------------------------|-----------------|-----------------------------------------------------------------------------------------|
| pulse duration at                          | 4 s             | B UMNyTLCHOM pexKiume (Npu 4rIMTeNsHoCTY DC in pulsed operation (with pulse duration at |
| pulse                                      | 3               | MrHOBEHHOE 3Hayenue (Mpu ANMTensHOCTH instantaneous value (with pulse                   |
| pulse duration [1]                         | 3 us            | MFHOBEHHO® 3HaueHve (Npu 4IMTENbHOCTH instantaneous value (with pulse duration          |
| pulse duration [2]                         | 4 us            | MFHOBEHHO® 3HaueHve (Npu 4IMTENbHOCTH instantaneous value (with pulse duration          |
| Dissipation, W [1]                         | 6 W             | 6ONMEESMKC) ... .ot 3,5 Dissipation, W:                                                 |
| Dissipation, W [2]                         | 35 W            | 6ONMEESMKC) ... .ot 3,5 Dissipation, W:                                                 |
| grid                                       | 2               | PacceuBaemasi MOLHOCTb CETKOW, BT AU 2 grid ...                                         |
| pulsed operation), cm                      | 7 cm            | AnuHa BonHbI (B MMNYNBECHOM PEXUME), CM R 7 Wavelength (in pulsed operation), cm . ...  |
| heating time, s, atleast                   | 45 s            | Bpewms pasorpesa katoga, ϕ, He MeHee R 45 Cathode heating time, s, atleast .....        |
| anode, atleast                             | 200             | aHoAa, He MeHee S 200 anode, atleast .....                                              |
| cathode                                    | 120             | BbIBOJOB CETKWU U KaToaa - 120 leads of grid and cathode .....                          |
| cathode lead (after operation for not over | 6               | BbiBOAA KaToga (npy paboTte He 6onee cathode lead (after operation for not over         |
| grid circuit, kQ)                          | 10 kohm         | ConpoTuBnEHWe B LUemu ceTku, KOMM ca 10 Resistance in grid circuit, kQ) .....           |
| frequency [1]                              | 126 Hz          | U; = 12,6 V; 1 = 2 us; pulse frequency 500 Hz FE B L                                    |
| frequency [2]                              | 1 Hz            | U; = 12,6 V; 1 = 2 us; pulse frequency 500 Hz FE B L                                    |
| frequency [3]                              | 2 Hz            | U; = 12,6 V; 1 = 2 us; pulse frequency 500 Hz FE B L                                    |
| frequency [4]                              | 500 Hz          | U; = 12,6 V; 1 = 2 us; pulse frequency 500 Hz FE B L                                    |
| Current: ! i                               | 400 A           | 400 I AT P Tt Peak Anode Current: ! i                                                   |
| frequency [1]                              | 12.6 Hz         | i T U;=12.6 V; T = 2us pulse frequency 500 Hz ! ! o                                     |
|                                            |                 |                                                                                         |

| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                                                  |
|---------------------------|-----------------|-------------------------------------------------------------------|
| frequency [2]             | <b>2 Hz</b>     | i T U;=12.6 V; T = 2us pulse frequency 500 Hz !<br>! o            |
| frequency [3]             | <b>500 Hz</b>   | i T U;=12.6 V; T = 2us pulse frequency 500 Hz !<br>! o            |
| Voltage in Continuous [1] | <b>1 W</b>      | 1 /«" Output Power versus Anode Voltage in<br>Continuous- 7 ; ; } |
| Voltage in Continuous [2] | <b>7 W</b>      | 1 /«" Output Power versus Anode Voltage in<br>Continuous- 7 ; ; } |

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