



## ELECTRONIC TUBE REFERENCE

## 6N1PEV

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Improved-reliability, long-life Russian double triode for low-frequency voltage amplification, with manufacturer data specifying a 5000-hour service-life guarantee.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 9             |
| NOMINAL HEATER      | 6.3 V / 600 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                      |          |
|--------------------------------------------------------------------------------------|----------|
| SECTION1 Triode                                                                      |          |
| TRANSCONDUCTANCE                                                                     | 0.0047 S |
| AMPLIFICATION FACTOR                                                                 | 35       |
| MAXIMUM PLATE VOLTAGE                                                                | 250 V    |
| MAXIMUM PLATE DISSIPATION                                                            | 2.2 W    |
| MAXIMUM CATHODE CURRENT                                                              | 25 mA    |
| Bilingual Russian/English datasheet; English text used as primary extraction source. |          |

|                                         |          |
|-----------------------------------------|----------|
| <b>SECTION2</b> Triode                  |          |
| <b>TRANSCONDUCTANCE</b>                 | 0.0047 S |
| <b>AMPLIFICATION FACTOR</b>             | 35       |
| <b>MAXIMUM PLATE VOLTAGE</b>            | 250 V    |
| <b>MAXIMUM PLATE DISSIPATION</b>        | 2.2 W    |
| <b>MAXIMUM CATHODE CURRENT</b>          | 25 mA    |
| <i>Second physical triode restored.</i> |          |

The G6HIII-EB improved-reliability long-life HOCTH, JOJTOBCUHBIIH INpelHA3HAUeH JJId YCHJEHHUSA double triode is designed for amplification of low- HanpAXeHus HHU3KOH YacCTOTHL.

## SOURCE OPERATING CONDITIONS

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# 195X Russian

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

## 195X RUSSIAN

## Section 1 · Triode

| CHARACTERISTICS                |                 |                                                                                               |
|--------------------------------|-----------------|-----------------------------------------------------------------------------------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE                                                                              |
| Source symbol to               | 989 A           | temnepatype +40°C, a TakxKe K BO3NENCTBHIO Me- lative humidity of 95 to 989 at +40°C, as well |
| Source symbol oseyrocts        | 5000 $\mu$ A    | I'apantuposannas posroseyrocts 5000 uacos. Service life guarantee: 5000 hr.                   |
| Source symbol U,               | 63 V            | U, 63V I, 75%15mA                                                                             |
| Published electrical parameter | 15 mA           | U, 63V I, 75%15mA                                                                             |
| Source symbol I,               | 60035 mA        | I, 60035 mA I, <I0pA                                                                          |
| Source symbol I                | 0 pA            | I, 60035 mA I, <I0pA                                                                          |
| Source symbol U,               | 250 V           | U, 250 V S 4,7+0,7 mA/V                                                                       |
| Source symbol S                | 4.7+0.7 mA/V    | U, 250 V S 4,7+0,7 mA/V                                                                       |
| Published electrical parameter | 600 $\Omega$    | R, ' ) 600 Q w837                                                                             |
| Source symbol Cox              | 3152055 pF      | Cox 3152055 pF Cgra <27 pF                                                                    |
| Source symbol Cgra             | <27 pF          | Cox 3152055 pF Cgra <27 pF                                                                    |
| Published electrical parameter | 25 pF           | Cak " 1'5t8:25 pF Cala? < 0,15 pF                                                             |
| Published electrical parameter | <0.15 pF        | Cak " 1'5t8:25 pF Cala? < 0,15 pF                                                             |
| Published electrical parameter | 18155 pF        | Cax?) 18155 pF Can B PF                                                                       |
| Source symbol U,               | 66 V            | U, 66V 60V                                                                                    |
| Source symbol V                | 60 V            | U, 66V 60V                                                                                    |
| Source symbol P,               | 22 W            | P, 22 W                                                                                       |
| Source symbol Ryr              | 5 M $\Omega$    | Ryr 05 MQ                                                                                     |

| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE         |
|--------------------------------|-----------------|--------------------------|
| Published electrical parameter | 22.5 mA         | 22,5 max                 |
| Published electrical parameter | 49 mA           | 49 max                   |
| Published electrical parameter | 56 mA           | 56 max                   |
| Source symbol Uy               | 12 V            | Uy 12V 10V               |
| Source symbol V                | 10 V            | Uy 12V 10V               |
| Published electrical parameter | 8 V             | 8V                       |
| Published electrical parameter | 4 V             | A A 0 -8 -6 -4 -2 0 2 4V |
| Published electrical parameter | 63 V            | Ia U,=63V Ia U,=63V      |
| Source symbol U                | 300 V           | U300V                    |
| Source symbol i                | 2 A             | i 02 Ay                  |



## SOURCE OPERATING CONDITIONS

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# 1970 Russian Tubes Mashpriborintorg

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

## 1970 RUSSIAN TUBES MASHPRIBORINTORG

### Section 1 · Triode

| CHARACTERISTIC |                 |                                                             |
|----------------|-----------------|-------------------------------------------------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE                                            |
| U              | 63 V            | Published datasheet line: U, 63V I, 75%15mA                 |
| I              | 60035 mA        | Published datasheet line: I, 60035 mA I, <I0pA              |
| U              | 250 V           | Published datasheet line: U, 250 V S 4,7+0,7 mA/V           |
| R )            | 600 Q           | Published datasheet line: R, ') 600 Q w837                  |
| Cox            | 3152055 pF      | Published datasheet line: Cox 3152055 pF Cgra <27 pF        |
| Cak            | 1 pF            | Published datasheet line: Cak " 1'5t8:25 pF Cala? < 0,15 pF |

| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE                                  |
|-----------|-----------------|---------------------------------------------------|
| Cax )     | 18155 pF        | Published datasheet line: Cax?) 18155 pF Can B PF |
| U         | 66 V            | Published datasheet line: U, 66V 60V              |
| U         | 250 V           | Published datasheet line: U, 250 V                |
| P         | 22 W            | Published datasheet line: P, 22 W                 |
| Ryr       | 5 MQ            | Published datasheet line: Ryr 05 MQ               |

| OTHER     |                 |                                      |
|-----------|-----------------|--------------------------------------|
| PARAMETER | PUBLISHED VALUE | CONDITION / NOTE                     |
| U         | 66 V            | Published datasheet line: U, 66V 60V |
| U         | 250 V           | Published datasheet line: U, 250 V   |
| P         | 22 W            | Published datasheet line: P, 22 W    |
| Ryr       | 5 MQ            | Published datasheet line: Ryr 05 MQ  |
| Uy        | 12 V            | Published datasheet line: Uy 12V 10V |



#### SOURCE OPERATING CONDITIONS

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# 1981 Russian Tubes Katsnelson and Larionov

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

#### 1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

### Section 1 · Triode

| CHARACTERISTIC       |                 |                                                    |
|----------------------|-----------------|----------------------------------------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE                                   |
| Heater voltage       | 6.3 V           | Published nominal heater condition.                |
| Heater current       | 600 mA          | Published heater current.                          |
| Plate current        | 7.5 mA          | Published basic-parameter operating point.         |
| Transconductance     | 4500 μS         | Published basic-parameter value; normalized to μS. |
| Amplification factor | 35              | Published basic-parameter value.                   |
| Service life         | 5000 h          | Published service-life figure.                     |

| OTHER                     |                 |                                           |
|---------------------------|-----------------|-------------------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                          |
| Maximum plate voltage     | <b>250 V</b>    | Published limiting operating value.       |
| Maximum cathode current   | <b>25 mA</b>    | Published limiting cathode-current value. |
| Maximum plate dissipation | <b>2.2 W</b>    | Published per-triode plate dissipation.   |

## TUBE TINKER

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