



## ELECTRONIC TUBE REFERENCE

# 25L6GT

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

**1 SECTION**

CONSTRUCTION

**BEAMPOWER**

Glass-octal beam-power output tube for AC/DC radio receivers, explicitly related to the 50L6GT except for heater ratings.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | B7-7              | BASE PINS            | 7             |
| NOMINAL HEATER      | 25 V / 300 mA     | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                   |                |
|---------------------------------------------------------------------------------------------------|----------------|
| <b>SECTION 1</b> Beam Power                                                                       |                |
| PLATE RESISTANCE                                                                                  | 28000 $\Omega$ |
| TRANSCONDUCTANCE                                                                                  | 0.008 S        |
| MAXIMUM PLATE VOLTAGE                                                                             | 200 V          |
| MAXIMUM SCREEN VOLTAGE                                                                            | 125 V          |
| MAXIMUM PLATE DISSIPATION                                                                         | 10 W           |
| MAXIMUM SCREEN DISSIPATION                                                                        | 1.25 W         |
| <i>Class-A amplifier values promoted from the 200-V plate / 125-V screen published condition.</i> |                |

Glass octal beam-power output tube for AC/DC radio receivers; 25L6GT is explicitly identical to 50L6GT except for heater ratings.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1948 Brimar Radio Valve Manual

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

## 1948 BRIMAR RADIO VALVE MANUAL

## Section 1 · Beam Power

| CHARACTERISTIC          |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| HeaterOrFilamentVoltage | 25 V            | —                |
| HeaterOrFilamentCurrent | 300 mA          | —                |

| OTHER        |                 |                  |
|--------------|-----------------|------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE |
| Power Output | 3.3 W           | ClassA           |



## SOURCE OPERATING CONDITIONS

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# 1958 Brimar Radio Valve No 7

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

## 1958 BRIMAR RADIO VALVE NO 7

## Section 1 · Beam Power

| OTHER                          |                 |                  |
|--------------------------------|-----------------|------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
| Power output maximum published | 4.3 W           | —                |



# 195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Beam Power

| CAPACITANCE               |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Input capacitance         | 15 pF           | —                |
| Output capacitance        | 10 pF           | —                |
| Grid-to-plate capacitance | 0.8 pF          | —                |

| OTHER               |                 |                   |
|---------------------|-----------------|-------------------|
| PARAMETER           | PUBLISHED VALUE | CONDITION / NOTE  |
| Plate voltage       | 200 V           | ClassA            |
| Screen-grid voltage | 125 V           | ClassA            |
| Cathode resistor    | 180 ohm         | ClassA            |
| Plate current       | 46 mA           | ClassA            |
| Screen-grid current | 2.2 mA          | ClassA            |
| Load resistance     | 4000 ohm        | ClassA            |
| Power output        | 3.8 W           | ClassA            |
| Plate voltage       | 110 V           | ClassA;LowVoltage |
| Screen-grid voltage | 110 V           | ClassA;LowVoltage |
| Grid voltage        | -7.5 V          | ClassA;LowVoltage |
| Plate current       | 49 mA           | ClassA;LowVoltage |
| Screen-grid current | 4 mA            | ClassA;LowVoltage |
| Load resistance     | 2000 ohm        | ClassA;LowVoltage |
| Power output        | 2.1 W           | ClassA;LowVoltage |

| CHARACTERISTIC   |                 |                          |
|------------------|-----------------|--------------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE         |
| Plate resistance | 28000 ohm       | ClassA;PlateVoltage=200V |
| Transconductance | 8000 uS         | ClassA;PlateVoltage=200V |
|                  |                 |                          |

| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE  |
|------------------|-----------------|-------------------|
| Plate resistance | 13000 ohm       | ClassA;LowVoltage |
| Transconductance | 8000 uS         | ClassA;LowVoltage |



SOURCE DATA APPENDIX

## SOURCE OPERATING CONDITIONS

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# 1961 Tung Sol

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

## 1961 TUNG SOL

### Section 1 · Beam Power

| OTHER                     |                 |                         |
|---------------------------|-----------------|-------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE        |
| Heater voltage            | 25 V            | Nominal                 |
| Heater current            | 300 mA          | Nominal                 |
| Plate voltage             | 110 V           | ClassA; OperatingPoint1 |
| Plate voltage             | 200 V           | ClassA; OperatingPoint2 |
| Screen voltage            | 110 V           | ClassA; OperatingPoint1 |
| Screen voltage            | 125 V           | ClassA; OperatingPoint2 |
| Load resistance           | 2000 ohm        | ClassA; OperatingPoint1 |
| Load resistance           | 4000 ohm        | ClassA; OperatingPoint2 |
| Power output              | 2.1 W           | ClassA; OperatingPoint1 |
| Power output              | 3.8 W           | ClassA; OperatingPoint2 |
| Total harmonic distortion | 10 %            | ClassA; OperatingPoint1 |
| Total harmonic distortion | 10 %            | ClassA; OperatingPoint2 |

| CHARACTERISTIC   |                 |                         |
|------------------|-----------------|-------------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE        |
| Plate resistance | 13000 ohm       | ClassA; OperatingPoint1 |
| Plate resistance | 28000 ohm       | ClassA; OperatingPoint2 |
| Transconductance | 8000 uS         | ClassA; OperatingPoint1 |
| Transconductance | 8000 uS         | ClassA; OperatingPoint2 |



## SOURCE OPERATING CONDITIONS

# 1965 Sylvania Electronic Tubes Vol3

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

## 1965 SYLVANIA ELECTRONIC TUBES VOL3

## Section 1 · Beam Power

| CAPACITANCE               |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-to-plate capacitance | 0.8 pF          | —                |
| Input capacitance         | 15 pF           | —                |
| Output capacitance        | 9 pF            | —                |

| OTHER         |                 |                  |
|---------------|-----------------|------------------|
| PARAMETER     | PUBLISHED VALUE | CONDITION / NOTE |
| Plate voltage | 200 V           | ClassA           |

| CHARACTERISTICS  |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Transconductance | 9500 $\mu$ S    | ClassA           |
| Plate resistance | 30000 Ohm       | ClassA           |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1965 Westinghouse Data Book

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

## 1965 WESTINGHOUSE DATA BOOK

## Section 1 · Beam Power

| CHARACTERISTICS |                 |                  |
|-----------------|-----------------|------------------|
| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Voltage  | 25 V            | —                |
|                 |                 |                  |

| PARAMETER              | PUBLISHED VALUE | CONDITION / NOTE |
|------------------------|-----------------|------------------|
| Heater Current         | 300 mA          | —                |
| Grid-Plate Capacitance | 0.8 pF          | —                |
| Input Capacitance      | 15 pF           | —                |
| Output Capacitance     | 9 pF            | —                |

| OTHER                        |                 |                  |
|------------------------------|-----------------|------------------|
| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum Plate Voltage        | 200 V           | —                |
| Maximum Plate Dissipation    | 10 W            | —                |
| Maximum Screen Voltage       | 125 V           | —                |
| Maximum Screen Dissipation   | 1.25 W          | —                |
| Plate Voltage                | 200 V           | ClassA           |
| Screen Voltage               | 110 V           | ClassA           |
| Grid Voltage                 | -8 V            | ClassA           |
| Zero-Signal Plate Current    | 50 mA           | ClassA           |
| Maximum-Signal Plate Current | 55 mA           | ClassA           |



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

1966 Tung Sol Electronic Tubes 3 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 3 OF 4

Section 1 · Beam Power

| OTHER                      |                 |                  |
|----------------------------|-----------------|------------------|
| PARAMETER                  | PUBLISHED VALUE | CONDITION / NOTE |
| Maximum plate voltage      | 200 V           | WholeTube        |
| Maximum screen voltage     | 125 V           | WholeTube        |
| Maximum plate dissipation  | 10 W            | WholeTube        |
| Maximum screen dissipation | 1.25 W          | WholeTube        |
| Plate voltage              | 110 V           | ClassA1          |
| Plate resistance           | 13000 ohm       | ClassA1          |

| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
|------------------|-----------------|------------------|
| Transconductance | 8000 $\mu$ S    | ClassA1          |
| Power output     | 2.1 W           | ClassA1          |


SOURCE DATA APPENDIX

#### SOURCE OPERATING CONDITIONS

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## 1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

### Section 1 · Beam Power

| OTHER          |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Plate Voltage  | 200 V           | ClassA           |
| Screen Voltage | 125 V           | ClassA           |

| CHARACTERISTIC              |                 |                  |
|-----------------------------|-----------------|------------------|
| PARAMETER                   | PUBLISHED VALUE | CONDITION / NOTE |
| Zero-Signal Plate Current   | 46 mA           | ClassA           |
| Maximum-Signal Power Output | 3.8 W           | ClassA           |


SOURCE DATA APPENDIX

#### SOURCE OPERATING CONDITIONS

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## 1975 RCA RC30

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

1975 RCA RC30

### Section 1 · Beam Power

| OTHER                     |                 |                                              |
|---------------------------|-----------------|----------------------------------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE                             |
| Heater Voltage (ac/dc) 25 | 50 V            | Published in approved target datasheet entry |
| Heater Current 0.3        | 150 mA          | Published in approved target datasheet entry |

| PARAMETER                           | PUBLISHED VALUE               | CONDITION / NOTE                             |
|-------------------------------------|-------------------------------|----------------------------------------------|
| Plate Voitage                       | <b>200 V</b>                  | Published in approved target datasheet entry |
| Grid-No.2 (Screen-Grid) Voltage     | <b>125 V</b>                  | Published in approved target datasheet entry |
| Plate Dissipation                   | <b>10 W</b>                   | Published in approved target datasheet entry |
| Grid-No.2 Input 1                   | <b>-25 W</b>                  | Published in approved target datasheet entry |
| Plate Supply Voltage 110            | <b>200 V</b>                  | Published in approved target datasheet entry |
| Grid-No.2 Supply Voltage 110        | <b>125 V</b>                  | Published in approved target datasheet entry |
| Peak AF Grid-No.1 Voltage 7.5       | <b>8 V</b>                    | Published in approved target datasheet entry |
| Maximum-Signal Plate Current 50     | <b>47 mA</b>                  | Published in approved target datasheet entry |
| Zero-Signal Grid-No.2 Current 4     | <b>2.2 mA</b>                 | Published in approved target datasheet entry |
| Maximum-Signal Grid-No.2 Current 10 | <b>8.5 mA</b>                 | Published in approved target datasheet entry |
| Plate Resistance (Approx.) 13000    | <b>28000 ohm</b>              | Published in approved target datasheet entry |
| Transconductance 3000               | <b>8000 <math>\mu</math>S</b> | Published in approved target datasheet entry |
| Load Resistance 2000                | <b>4000 ohm</b>               | Published in approved target datasheet entry |
| Maximum-Signal Power Output 2.1     | <b>3.8 W</b>                  | Published in approved target datasheet entry |

| CAPACITANCE                                            |                 |                                              |
|--------------------------------------------------------|-----------------|----------------------------------------------|
| PARAMETER                                              | PUBLISHED VALUE | CONDITION / NOTE                             |
| Grid No.1 to Cathode, Heater, Grid No.2, and Grid No.i | <b>15 pF</b>    | Published in approved target datasheet entry |
| Plate to Cathode. Heater, Grid No.2, and Grid No.3     | <b>9.5 pF</b>   | Published in approved target datasheet entry |

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