



## ELECTRONIC TUBE REFERENCE

## 3D6

Power - Beam Single (NOT sweep) (under 10W) electronic tube

CONSOLIDATED TECHNICAL  
DATA

**1 SECTION**  
CONSTRUCTION  
**BEAMPOWER**

Directly heated beam-power amplifier designed for Class-A audio-output service in low-voltage battery-operated equipment.

## GENERAL CHARACTERISTICS

|                     |                   |                      |                |
|---------------------|-------------------|----------------------|----------------|
| BASE DESIGNATION    | 6BA               | BASE PINS            | 8              |
| NOMINAL HEATER      | 2.8 V / 110 mA    | PARALLEL HEATER      | 1.4 V / 220 mA |
| HEATING             | Direct            | SERIES OPERATION     | Capable        |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar        |

## SECTION RATINGS

| SECTION 1 Beam Power                                           |                 |
|----------------------------------------------------------------|-----------------|
| PLATE RESISTANCE                                               | 150000 $\Omega$ |
| TRANSCONDUCTANCE                                               | 0.0024 S        |
| MAXIMUM PLATE VOLTAGE                                          | 180 V           |
| MAXIMUM SCREEN VOLTAGE                                         | 135 V           |
| MAXIMUM PLATE DISSIPATION                                      | 4.5 W           |
| MAXIMUM SCREEN DISSIPATION                                     | 0.9 W           |
| MAXIMUM CATHODE CURRENT                                        | 30 mA           |
| Directly heated beam-power amplifier for Class A audio output. |                 |

Directly heated beam-power amplifier for Class A audio output.



## 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 | 1.4 V           | —                |
| HeaterOrFilamentCurrent | 220 mA          | —                |

| OTHER        |                 |                                     |
|--------------|-----------------|-------------------------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE                    |
| Power Output | 0.5 W           | ParallelFilaments;PlateVoltage=135V |



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 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 | 0.5 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

| OTHER               |                 |                       |
|---------------------|-----------------|-----------------------|
| PARAMETER           | PUBLISHED VALUE | CONDITION / NOTE      |
| Plate voltage       | 150 V           | ClassA;DirectFilament |
| Screen-grid voltage | 90 V            | ClassA;DirectFilament |
| Grid No.1 bias      | 4.5 V           | ClassA;DirectFilament |
| Plate current       | 9.8 mA          | ClassA;DirectFilament |
| Screen-grid current | 1 mA            | ClassA;DirectFilament |
| Transconductance    | 2400 uS         | ClassA;DirectFilament |
| Load resistance     | 14000 ohm       | ClassA;DirectFilament |
| Power output        | 0.6 W           | ClassA;DirectFilament |



SOURCE DATA APPENDIX

# 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          |
| MAX IMUM PLATE VOLTAGE 180         | 180 VOLTS       | Published datasheet value |
| MAX IMUM CATHODE CURRENT 30        | 30 MA           | Published datasheet value |
| PLATE VOLTAGE 90 135               | 150 VOLTS       | Published datasheet value |
| ZERO~-SIGNAL PLATE CURRENT 9.5 9.8 | 9.9 MA          | Published datasheet value |
|                                    |                 |                           |

| PARAMETER                                  | PUBLISHED VALUE  | CONDITION / NOTE          |
|--------------------------------------------|------------------|---------------------------|
| ZERO-SIGNAL GRID #2 CURRENT<br>1.6 1.2     | <b>1 MA</b>      | Published datasheet value |
| MAXIMUM SIGNAL PLATE<br>CURRENT 8.5 9.8    | <b>10.2 MA</b>   | Published datasheet value |
| MAXIMUM SIGNAL GRID #2<br>CURRENT 3.2 2    | <b>1.8 MA</b>    | Published datasheet value |
| LOAD RESISTANCE 8 000 12 000<br>14         | <b>0 OHMS</b>    | Published datasheet value |
| POWER OUTPUT 270 500                       | <b>600 MW</b>    | Published datasheet value |
| PLATE CURRENT                              | <b>23 MA</b>     | Published datasheet value |
| GRID #2 CURRENT                            | <b>6 MA</b>      | Published datasheet value |
| TOTAL DC CATHODE CURRENT<br>{NOT TO EXCEED | <b>30 MA</b>     | Published datasheet value |
| RF POWER INPUT                             | <b>0.25 WATT</b> | Published datasheet value |
| RF POWER OUTPUT                            | <b>1.4 WATTS</b> | Published datasheet value |