

ELECTRONIC TUBE REFERENCE

7408

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
BEAMPOWER

Beam-power tube designed as an output amplifier in high-quality sound systems, providing substantial audio-frequency power capability.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 8             |
| NOMINAL HEATER      | 6.3 V / 450 mA    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                                                                                                |                         |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| SECTION 1 Beam Power                                                                                                           |                         |
| PLATE RESISTANCE                                                                                                               | 50000 Ω                 |
| TRANSCONDUCTANCE                                                                                                               | 0.0040999999999999995 S |
| MAXIMUM PLATE VOLTAGE                                                                                                          | 350 V                   |
| MAXIMUM SCREEN VOLTAGE                                                                                                         | 315 V                   |
| MAXIMUM PLATE DISSIPATION                                                                                                      | 14 W                    |
| MAXIMUM SCREEN DISSIPATION                                                                                                     | 2.2 W                   |
| MAXIMUM CATHODE CURRENT                                                                                                        | 100 mA                  |
| Promoted only from clearly labeled printed ratings/characteristics; specialized and operating data retained in parameter rows. |                         |

Beam power tube used as an output amplifier in high-quality sound systems.

## 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

| CHARACTERISTIC            |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Heater Voltage            | 6.3 V           | —                |
| Heater Current            | 450 mA          | —                |
| Grid To Plate Capacitance | 0.7 pF          | —                |
| Input Capacitance         | 9 pF            | —                |
| Output Capacitance        | 5.5 pF          | —                |
| Transconductance          | 4100 uS         | —                |

| OTHER           |                 |                           |
|-----------------|-----------------|---------------------------|
| PARAMETER       | PUBLISHED VALUE | CONDITION / NOTE          |
| Plate Voltage   | 250 V           | ClassA                    |
| Screen Voltage  | 250 V           | ClassA                    |
| Grid Voltage    | -12.5 V         | ClassA                    |
| Plate Current   | 45 mA           | ClassA                    |
| Screen Current  | 4.5 mA          | ClassA                    |
| Load Resistance | 5000 ohm        | ClassA                    |
| Power Output    | 4.5 W           | ClassA                    |
| Power Output    | 14 W            | TwoTubes;PushPull;ClassAB |

# 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 . . . . .<br>..o 350 Volts Pin 3–Plate                   | 350 Volts       | Published datasheet; semantic line recovery |
| Screen Voltage. . . . .<br>e e 315 Volts Pin 4–Grid<br>Number 2        | 315 Volts       | Published datasheet; semantic line recovery |
| Plate Dissipation. . . . .<br>... .. 14 Watts<br>(Screen)              | 14 Watts        | Published datasheet; semantic line recovery |
| Screen Dissipation. . . . .<br>. . . . . 2.2 Watts                     | 2.2 Watts       | Published datasheet; semantic line recovery |
| DC Component. ... .. i,<br>100 Volts Pin 8–Cathode and<br>Beam         | 100 Volts       | Published datasheet; semantic line recovery |
| Total DCand Peak. . . . .<br>... .. ..o ouin.. 200<br>Volts Plates     | 200 Volts       | Published datasheet; semantic line recovery |
| With Cathode Bias. . . . .<br>... .. .. 00, 0.5<br>Megohms             | 0.5 Megohms     | Published datasheet; semantic line recovery |
| Plate Voltage . . . . . 60<br>250 Volts                                | 250 Volts       | Published datasheet; semantic line recovery |
| Screen Voltage. . . . .<br>. 250 250 Volts                             | 250 Volts       | Published datasheet; semantic line recovery |
| Grid-Number 1 Voltage . . .<br>. . . . . 0 –12.5<br>Volts              | 1 Volt          | Published datasheet; semantic line recovery |
| Grid-Number 1 Voltage . . .<br>. . . . . 0 –12.5<br>Volts              | 12.5 Volts      | Published datasheet; semantic line recovery |
| Peak AF Grid-Number 1<br>Voltage . . . . .<br>. . . . . –<br>125 Volts | 1 Volt          | Published datasheet; semantic line recovery |
|                                                                        |                 |                                             |

| PARAMETER                                                                 | PUBLISHED VALUE        | CONDITION / NOTE                            |
|---------------------------------------------------------------------------|------------------------|---------------------------------------------|
| Peak AF Grid-Number 1<br>Voltage . . . . .<br>. . . . . –<br>125 Volts    | <b>125 Volts</b>       | Published datasheet; semantic line recovery |
| Plate Resistance,<br>approximate. . . . .<br>. . . . . – 50,000 Ohms      | <b>50000 Ohms</b>      | Published datasheet; semantic line recovery |
| Transconductance . . . . .<br>. . . . . – 4100 Micromhos                  | <b>4100 Micromhos</b>  | Published datasheet; semantic line recovery |
| Zero-Signal Plate Current. .<br>. . . . . 100<br>45 Milliamperes          | <b>45 Milliamperes</b> | Published datasheet; semantic line recovery |
| Maximum-Signal Plate<br>Current. . . . .<br>. . . . . – 47 Milliamperes   | <b>47 Milliamperes</b> | Published datasheet; semantic line recovery |
| Zero-Signal Screen Current.<br>. . . . . 22 4,5<br>Milliamperes           | <b>5 Milliamperes</b>  | Published datasheet; semantic line recovery |
| Maximum-Signal Screen<br>Current. . . . .<br>. . . . . – 7.0 Milliamperes | <b>7 Milliamperes</b>  | Published datasheet; semantic line recovery |
| Maximum-Signal Power Output.<br>. . . . .<br>. . . . . – 4.5 Watts        | <b>4.5 Watts</b>       | Published datasheet; semantic line recovery |
| T Heater current of a bogey<br>tube at Ef =6.3 volts.                     | <b>6.3 volts</b>       | Published datasheet; semantic line recovery |
| Ke55611-T01 105 GRID-NUMBER<br>1 VOLTAGE IN VOLTS APRIL 15,<br>1960       | <b>1 VOLT</b>          | Published datasheet; semantic line recovery |
| Heater Voltage                                                            | <b>6.3 V</b>           | Published datasheet                         |
| Heater Current                                                            | <b>450 mA</b>          | Published datasheet                         |



SOURCE DATA APPENDIX

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1971 RCA HB3 Binder 5 of 7

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

## Section 1 · Beam Power

| OTHER                                          |                 |                  |
|------------------------------------------------|-----------------|------------------|
| PARAMETER                                      | PUBLISHED VALUE | CONDITION / NOTE |
| Heater voltage                                 | 6.3 V           | —                |
| Heater current                                 | 450 mA          | —                |
| Plate voltage                                  | 250 V           | ClassA           |
| Screen voltage                                 | 250 V           | ClassA           |
| Plate current                                  | 45 mA           | ClassA           |
| Power output                                   | 4.5 W           | ClassA           |
| Maximum plate voltage                          | 350 V           | —                |
| Maximum screen voltage                         | 315 V           | —                |
| Maximum plate dissipation                      | 14 W            | —                |
| Maximum screen input                           | 2.2 W           | —                |
| Peak heater-cathode voltage<br>heater negative | 200 V           | —                |
| Peak heater-cathode voltage<br>heater positive | 200 V           | —                |

| CHARACTERISTIC   |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Plate resistance | 50000 ohm       | ClassA           |
| Transconductance | 4100 uS         | ClassA           |

| CAPACITANCE               |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-to-plate capacitance | 0.7 pF          | —                |
| Input capacitance         | 9 pF            | —                |
| Output capacitance        | 7.5 pF          | —                |



SOURCE DATA APPENDIX

# 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 |
| Peak Heater-Cathode Voltage    | 200 V           | AbsoluteValue    |
| Average Heater-Cathode Voltage | 100 V           | AbsoluteValue    |
| Typical Plate Voltage          | 250 V           | ClassA           |
| Typical Screen Voltage         | 250 V           | ClassA           |
| Grid No.1 Voltage              | -12.5 V         | ClassA           |
| Zero-Signal Plate Current      | 45 mA           | ClassA           |
| Maximum-Signal Plate Current   | 47 mA           | ClassA           |
| Zero-Signal Screen Current     | 4.5 mA          | ClassA           |
| Maximum-Signal Screen Current  | 7 mA            | ClassA           |
| Load Resistance                | 5000 ohm        | ClassA           |

| CAPACITANCE                    |                 |                  |
|--------------------------------|-----------------|------------------|
| PARAMETER                      | PUBLISHED VALUE | CONDITION / NOTE |
| Grid No.1 to Plate Capacitance | 0.7 pF          | ClassA           |