



## ELECTRONIC TUBE REFERENCE

## 8032A

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## BEAMPOWER

Beam-power RF transmitting tube intended for substantial communications power output, combining high plate voltage with moderate dissipation in a compact envelope.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 4             |
| NOMINAL HEATER      | 12.6 V / 562 mA   | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                                                                                                                                    |         |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| SECTION 1 Beam Power                                                                                                                                                                                               |         |
| TRANSCONDUCTANCE                                                                                                                                                                                                   | 0.007 S |
| AMPLIFICATION FACTOR                                                                                                                                                                                               | 4.5     |
| MAXIMUM PLATE VOLTAGE                                                                                                                                                                                              | 750 V   |
| MAXIMUM SCREEN VOLTAGE                                                                                                                                                                                             | 250 V   |
| MAXIMUM PLATE DISSIPATION                                                                                                                                                                                          | 35 W    |
| MAXIMUM SCREEN DISSIPATION                                                                                                                                                                                         | 3 W     |
| <i>Beam-power tube; supplied sheet is electrically the same as 6146B/8298A except listed heater/capacitance items. Operating values are retained in parameters; unsupported absolute maxima were not invented.</i> |         |

High-power-sensitivity beam-power transmitting tube for RF power amplifier, oscillator, AF power amplifier, and modulator service. The supplied RCA sheet was used for published ratings, characteristics, operating conditions, and capacitances where present.

## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 1971 RCA HB3 Binder 6 of 7

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

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## Section 1 · Beam Power

| CHARACTERISTIC                                                 |                 |                      |
|----------------------------------------------------------------|-----------------|----------------------|
| PARAMETER                                                      | PUBLISHED VALUE | CONDITION / NOTE     |
| Heater/filament voltage nominal                                | 12.6 V          | WholeTube            |
| Heater/filament current nominal                                | 562 mA          | WholeTube            |
| ~ IL is recommended that the design-center heater voltage 0e   | 12.6 V          | Published source row |
| the heater power supply should not fluctuate more than         | 10 %            | Published source row |
| Z With Good iti0n5 in note (y) above, reduce heater voltage to | 10 V            | Published source row |
| on the heater, a cycle of I minute "ON" and                    | 4 min           | Published source row |
| With heater voltage of                                         | 13.5 V          | Published source row |
| With heater voltage of (value 2)                               | 100 V           | Published source row |
| With ac or do heater voltage of                                | 13.5 V          | Published source row |
| W ith ac or do heater voltage of                               | 13.5 V          | Published source row |
| W ith ac or do heater voltage of (value 2)                     | -200 V          | Published source row |
| Grid No                                                        | 1 pF            | Published source row |
| Grid No (value 2)                                              | 0.22 pF         | Published source row |

| OTHER                                    |                 |                      |
|------------------------------------------|-----------------|----------------------|
| PARAMETER                                | PUBLISHED VALUE | CONDITION / NOTE     |
| RCA "DARK HEATER" WITH                   | 12 V            | Published source row |
| RCA "DARK HEATER" WITH (value 2)         | 15 V            | Published source row |
| Current at heater volts =                | 12 V            | Published source row |
| Current at heater volts = (value 2)      | 6 V             | Published source row |
| Current at heater volts = (value 3)      | 0.562 V         | Published source row |
| Voltage (AC or DC)                       | 6.3 V           | Published source row |
| Minimum heating time                     | 60 s            | Published source row |
| Transconductance, for plate volts =      | 200 V           | Published source row |
| grid-No                                  | 2 mA            | Published source row |
| grid-No (value 2)                        | 200 mA          | Published source row |
| grid-No (value 3)                        | 100 mA          | Published source row |
| grid-No (value 4)                        | 700 mA          | Published source row |
| Mu-Factor, Grid No                       | 2               | Published source row |
| Mu-Factor, Grid No (value 2)             | 1               | Published source row |
| plate volts =                            | 200 V           | Published source row |
| plate volts = (value 2)                  | 2 V             | Published source row |
| plate volts = (value 3)                  | 200 V           | Published source row |
| DC Plate Voltage                         | 600 V           | Published source row |
| DC Plate Voltage (value 2)               | 750 V           | Published source row |
| DC Grid-No                               | 2 V             | Published source row |
| DC Grid-No (value 2)                     | 250 V           | Published source row |
| DC Grid-No (value 3)                     | 250 V           | Published source row |
| PAax.-Signal DC Plate Currents           | 175 mA          | Published source row |
| PAax.-Signal DC Plate Currents (value 2) | 220 mA          | Published source row |
| Max.-Signal Plate Inputs                 | 90 W            | Published source row |
| Max.-Signal Plate Inputs (value 2)       | 120 W           | Published source row |
| Max.-Signal Grid-No                      | 2 W             | Published source row |

| PARAMETER                              | PUBLISHED VALUE | CONDITION / NOTE     |
|----------------------------------------|-----------------|----------------------|
| Max.-Signal Grid-No (value 2)          | 3 W             | Published source row |
| Max.-Signal Grid-No (value 3)          | 3 W             | Published source row |
| Plate Dissipations                     | 27 W            | Published source row |
| Plate Dissipations (value 2)           | 35 W            | Published source row |
| DC Plate Voltage                       | 600 V           | Published source row |
| DC Plate Voltage (value 2)             | 750 V           | Published source row |
| DC Grid-No                             | 2 V             | Published source row |
| DC Grid-No (value 2)                   | 200 V           | Published source row |
| DC Grid-No (value 3)                   | 200 V           | Published source row |
| Grid-No.1 Voltage9                     | 94 V            | Published source row |
| Grid-No.1 Voltage9 (value 2)           | 96 V            | Published source row |
| Zero-Signal DC Plate Current           | 48 mA           | Published source row |
| Zero-Signal DC Plate Current (value 2) | 50 mA           | Published source row |
| Max.-Signal DG Plate Current           | 250 mA          | Published source row |
| Max.-Signal DG Plate Current (value 2) | 250 mA          | Published source row |
| Max.-Signal DC Grid No                 | 2               | Published source row |
| Current                                | 14.8 mA         | Published source row |
| Current (value 2)                      | 12.6 mA         | Published source row |
| DC Plate Voltage                       | 600 V           | Published source row |
| DC Plate Voltage (value 2)             | 750 V           | Published source row |
| DC Grid-No                             | 2 V             | Published source row |
| DC Grid-No (value 2)                   | 250 V           | Published source row |
| DC Grid-No (value 3)                   | 250 V           | Published source row |
| Currents                               | 175 mA          | Published source row |
| Currents (value 2)                     | 220 mA          | Published source row |
| Max.-Signal Plate Input°               | 90 W            | Published source row |
| Max.-Signal Plate Input° (value 2)     | 120 W           | Published source row |
| Max.-Signal Grid-No                    | 2               | Published source row |
| Plate Dissipations                     | 27 W            | Published source row |

| PARAMETER                    | PUBLISHED VALUE | CONDITION / NOTE     |
|------------------------------|-----------------|----------------------|
| Plate Dissipations (value 2) | 35 W            | Published source row |
| DC Plate Voltage             | 500 V           | Published source row |
| DC Plate Voltage (value 2)   | 600 V           | Published source row |
| DC Plate Voltage (value 3)   | 600 V           | Published source row |
| DC Plate Voltage (value 4)   | 750 V           | Published source row |
| DC Grid-No                   | 2 V             | Published source row |
| DC Grid-No (value 2)         | 200 V           | Published source row |
| DC Grid-No (value 3)         | 200 V           | Published source row |
| DC Grid-No (value 4)         | 200 V           | Published source row |
| Grid No.1 Voltage            | 108 V           | Published source row |
| Grid No.1 Voltage (value 2)  | 106 V           | Published source row |
| Grid No.1 Voltage (value 3)  | 114 V           | Published source row |
| Grid No.1 Voltage (value 4)  | 110 V           | Published source row |
| Current                      | 50 mA           | Published source row |
| Current (value 2)            | 40 mA           | Published source row |
| Current (value 3)            | 50 mA           | Published source row |
| Current (value 4)            | 40 mA           | Published source row |
| Current                      | 308 mA          | Published source row |
| Current (value 2)            | 270 mA          | Published source row |
| Current (value 3)            | 328 mA          | Published source row |
| Current (value 4)            | 294 mA          | Published source row |
| Max.-Signal DC Grid No       | 2               | Published source row |
| Current                      | 26 mA           | Published source row |
| Current (value 2)            | 27 mA           | Published source row |
| Current (value 3)            | 26 mA           | Published source row |
| Current (value 4)            | 28 mA           | Published source row |
| Current                      | 27 mA           | Published source row |
| Current (value 2)            | 1.3 mA          | Published source row |
| Current (value 3)            | 3.4 mA          | Published source row |
| Current (value 4)            | 7.6 mA          | Published source row |
| DC Plate Voltage             | 600 V           | Published source row |



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