

ELECTRONIC TUBE REFERENCE

8794

Power - Beam (NOT sweep) (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION  
CONSTRUCTION  
BEAMPOWER

Cermolox high-power beam tube for RF service through approximately 400 MHz, with 12.5 kW plate dissipation and multi-kilowatt transmitting capability.

GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | —                 | BASE PINS            | 9             |
| NOMINAL HEATER      | 5.7 V / 125 A     | PARALLEL HEATER      | — / —         |
| HEATING             | Direct            | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

SECTION RATINGS

|                                                      |         |
|------------------------------------------------------|---------|
| SECTION1 Beam Power                                  |         |
| AMPLIFICATION FACTOR                                 | 10      |
| MAXIMUM PLATE VOLTAGE                                | 8000 V  |
| MAXIMUM SCREEN VOLTAGE                               | 1650 V  |
| MAXIMUM PLATE DISSIPATION                            | 12500 W |
| MAXIMUM CATHODE CURRENT                              | 4 A     |
| Published screen-to-control-grid mu factor promoted. |         |

Cermolox high-power beam-power tube for RF service through 400 MHz.

## 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.

1971 RCA HB3 BINDER 6 OF 7

## Section 1 · Beam Power

| OTHER                   |                 |                  |
|-------------------------|-----------------|------------------|
| PARAMETER               | PUBLISHED VALUE | CONDITION / NOTE |
| Heater/filament voltage | 5.7 V           | —                |
| Heater/filament current | 125 A           | —                |
| Maximum plate voltage   | 8000 V          | —                |
| Maximum screen voltage  | 1650 V          | —                |
| Maximum plate current   | 4 A             | —                |
| Plate dissipation       | 12500 W         | —                |
| Minimum heating time    | 15 s            | —                |
| Full-input frequency    | 400 MHz         | —                |
| PEP output              | 10000 W         | SSB              |
| FM/telegraphy output    | 15000 W         | —                |

| CHARACTERISTIC                   |                 |                  |
|----------------------------------|-----------------|------------------|
| PARAMETER                        | PUBLISHED VALUE | CONDITION / NOTE |
| Grid No.2 to grid No.1 mu factor | 10              | —                |

| CONSTRUCTION   |                 |                  |
|----------------|-----------------|------------------|
| PARAMETER      | PUBLISHED VALUE | CONDITION / NOTE |
| Cooling method | Forced air      | —                |

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