



## ELECTRONIC TUBE REFERENCE

8950

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

## 1 SECTION

CONSTRUCTION

## BEAMPOWER

High-current beam pentode for linear and RF power applications, combining approximately 16 mA/V transconductance with 33 W plate dissipation and substantial pulse capability.

## GENERAL CHARACTERISTICS

|                     |                   |                      |               |
|---------------------|-------------------|----------------------|---------------|
| BASE DESIGNATION    | E12-74            | BASE PINS            | 12            |
| NOMINAL HEATER      | 13 V / 1.1 A      | PARALLEL HEATER      | – / –         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                  |         |
|----------------------------------------------------------------------------------|---------|
| SECTION 1 Beam Power                                                             |         |
| TRANSCONDUCTANCE                                                                 | 0.016 S |
| MAXIMUM PLATE VOLTAGE                                                            | 800 V   |
| MAXIMUM SCREEN VOLTAGE                                                           | 250 V   |
| MAXIMUM PLATE DISSIPATION                                                        | 33 W    |
| MAXIMUM SCREEN DISSIPATION                                                       | 5 W     |
| MAXIMUM CATHODE CURRENT                                                          | 400 mA  |
| MAXIMUM HEATER-CATHODE VOLTAGE                                                   | 200 V   |
| Beam pentode; peak pulse plate/cathode values retained separately as parameters. |         |

High-current beam pentode for linear-amplifier and RF power applications.



## SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

# 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 |
| HeaterOrFilamentVoltageNominal       | 13 V            | —                |
| HeaterOrFilamentCurrentNominal       | 1.1 A           | —                |
| Maximum Plate Voltage                | 800 V           | —                |
| MaximumPeakPositivePulsePlateVoltage | 6500 V          | Pulse            |
| Maximum Screen Voltage               | 250 V           | —                |
| Maximum Plate Dissipation            | 33 W            | —                |
| Maximum Screen Dissipation           | 5 W             | —                |
| Maximum DC Cathode Current           | 400 mA          | —                |
| Maximum Peak Cathode Current         | 1400 mA         | Pulse            |

| CHARACTERISTIC   |                 |                  |
|------------------|-----------------|------------------|
| PARAMETER        | PUBLISHED VALUE | CONDITION / NOTE |
| Transconductance | 16000 $\mu$ S   | —                |

## TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,  
and their source documents.

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