



4E27/8001

4E27

## TRANSMITTING BEAM POWER AMPLIFIER

## GENERAL DATA

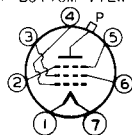
## Electrical:

Filament, Thoriated Tungsten:  
 Voltage . . . . . 5.0 . . . . . a-c or d-c volts  
 Current . . . . . 7.5 . . . . . amp.  
 Transconductance for plate  
 current of 75 ma. . . . . 2800 . . . . .  $\mu$ hos  
 Direct Interelectrode Capacitances:  
 Grid to Plate . . . . . 0.06 . . . . .  $\mu$ f  
 Input . . . . . 12 . . . . .  $\mu$ f  
 Output . . . . . 6.5 . . . . .  $\mu$ f

## Physical:

Overall Length . . . . . 5-15/16"  $\pm$  1/4"  
 Seated Length . . . . . 5-5/16"  $\pm$  1/4"  
 Maximum Diameter . . . . . 2-11/16"  
 Mounting Position . . . . . Vertical Only: Base up or down  
 Bulb . . . . . T-21  
 Base . . . . . Medium Metal Shell Giant 7-Pin, Bayonet  
 Basing Designation for BOTTOM VIEW . . . . . .7BM

Pin 1 - Filament  
 Pin 2 - Grid No.3  
 Pin 3 - Grid No.2  
 Pin 4 - Grid No.1  
 Pin 5 - Grid No.3  
 Pin 6 - Grid No.2  
 Pin 7 - Filament  
 Bulb }  
 Ter- } - Plate  
 minal }  
 Base } - Internal  
 Shell } - Shield



## A-F POWER AMPLIFIER &amp; MODULATOR - Class A1

## Maximum Ratings, Absolute Values:

D-C PLATE VOLTAGE . . . . . 2000 max. . volts  
 D-C SCREEN VOLTAGE (Grid No.2) . . . . . 750 max. . volts  
 D-C PLATE CURRENT . . . . . 150 max. . ma.  
 D-C SCREEN CURRENT . . . . . 40 max. . ma.  
 PLATE INPUT . . . . . 75 max. . watts  
 SCREEN INPUT . . . . . 30 max. . watts  
 PLATE DISSIPATION . . . . . 75 max. . watts

## Typical Operation:

D-C Plate Voltage . . . . . 500 1000 . . . volts  
 D-C Suppressor Voltage (Grid No.3)  $\diamond$  60 0 . . . volts  
 D-C Screen Voltage . . . . . 500 300 . . . volts  
 D-C Grid Voltage (Grid No.1) \* # . . -47 -27 . . . volts  
 Peak A-F Grid Voltage . . . . . 47 27 . . . volts  
 D-C Plate Current . . . . . 150 75 . . . ma.  
 D-C Screen Current . . . . . 10 5 . . . ma.  
 Load Resistance . . . . . 2600 12000 . . . ohms  
 Power Output . . . . . 30 34 approx. watts

\*: #: See next page.  $\diamond$ : See end of tabulation.  $\leftarrow$  Indicates a change.

MAR. 30, 1945

RCA VICTOR DIVISION  
 RADIO CORPORATION OF AMERICA, HARRISON, NEW JERSEY

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