

|                        |            |       |
|------------------------|------------|-------|
| DC PLATE CURRENT.....  | 30 max     | ma    |
| DC GRID CURRENT.....   | 4 max      | ma    |
| PEAK PLATE INPUT.....  | 390000 max | watts |
| PLATE DISSIPATION..... | 250 max    | watts |
| PULSE LENGTH.....      | 5 max      | μsec  |

## BEAM POWER TUBE

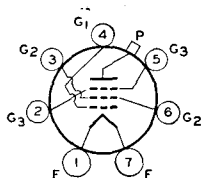
See type 4-125A/4D21.

## 4D21

## BEAM POWER TUBE

Thoriated-tungsten-filament type used as af power amplifier and modulator and as rf power amplifier and oscillator. May be used with full input up to 75 Mc. For operation at 120

## 4E27/ 8001



Mc, plate voltage and plate input should be reduced to 75 per cent of maximum ratings; at 150 Mc, to 50 per cent. Class C Telegraphy maximum CCS plate dissipation, 75 watts. Requires Giant seven-contact socket and may be mounted in vertical position only, base up or down. OUTLINE 34, *Outlines* Section. Plate shows an orange-red color when the tube is operated at maximum CCS ratings.

|                                                                                  |      |         |
|----------------------------------------------------------------------------------|------|---------|
| FILAMENT VOLTAGE (AC/DC).....                                                    | 5.0  | volts   |
| FILAMENT CURRENT.....                                                            | 7.5  | amperes |
| TRANSCONDUCTANCE (For plate current of 75 milliamperes).....                     | 2800 | μmhos   |
| DIRECT INTERELECTRODE CAPACITANCES:                                              |      |         |
| Grid to plate (Base shell connected to ground).....                              | 0.06 | μf      |
| Grid No.1 to filament, grid No.3, grid No.2, internal shield, and base shell.... | 12   | μf      |
| Plate to filament, grid No.3, grid No.2, internal shield, and base shell.....    | 6.5  | μf      |

## RF POWER AMPLIFIER AND OSCILLATOR—Class C Telegraphy# and

## RF POWER AMPLIFIER—Class C FM Telephony

### Maximum CCS Ratings:

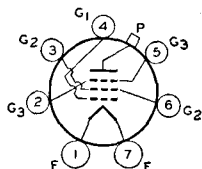
|                                          |          |       |
|------------------------------------------|----------|-------|
| DC PLATE VOLTAGE.....                    | 4000 max | volts |
| DC GRID-NO.2 (SCREEN-GRID) VOLTAGE.....  | 750 max  | volts |
| DC GRID-NO.1 (CONTROL-GRID) VOLTAGE..... | -500 max | volts |
| DC PLATE CURRENT.....                    | 150 max  | ma    |
| DC GRID-NO.2 CURRENT.....                | 30 max   | ma    |
| DC GRID-NO.1 CURRENT.....                | 25 max   | ma    |
| PLATE INPUT.....                         | 300 max  | watts |
| GRID-NO.2 INPUT.....                     | 25 max   | watts |
| PLATE DISSIPATION.....                   | 75 max   | watts |

# Key-down conditions per tube without amplitude modulation. Amplitude modulation essentially negative may be used if the positive peak of the audio-frequency envelope does not exceed 115 per cent of the carrier conditions.

## BEAM POWER TUBE

Thoriated-tungsten-filament type used as af power amplifier and modulator and as rf power amplifier and oscillator. May be used at full input up to 75 Mc. Class C Telegraphy max-

## 4E27A/ 5-125B



imum CCS plate dissipation, 125 watts. Requires Giant seven-contact socket such as E. F. Johnson Co. socket No. 122-237, or equivalent, and may be mounted in vertical position only, base up or down. OUTLINE 35, *Outlines* Section. Plate shows a cherry-red color when the tube is operated at maximum CCS ratings.

|                                                                  |         |         |
|------------------------------------------------------------------|---------|---------|
| FILAMENT VOLTAGE (AC/DC).....                                    | 5.0     | volts   |
| FILAMENT CURRENT.....                                            | 7.5     | amperes |
| TRANSCONDUCTANCE*.....                                           | 2150    | μmhos   |
| MU-FACTOR, Grid No.2 to Grid No.1.....                           | 5       |         |
| DIRECT INTERELECTRODE CAPACITANCES:                              |         |         |
| Grid No.1 to plate (Base shell connected to ground).....         | 0.1 max | μf      |
| Grid No.1 to filament, grid No.3, grid No.2, and base shell..... | 10.5    | μf      |
| Plate to filament, grid No.3, grid No.2, and base shell.....     | 4.7     | μf      |

\* Plate volts, 2500; grid-No.2 volts, 500; grid-No.3 volts, 0; plate milliamperes, 50.