## **2EG4**

## HIGH-MU TRIODE

Nuvistor type used as a grounded-cathode, neutralized rf amplifier in vhf tuners of television and FM re-ceivers. Outlines section, 1; requires nuvistor socket.



| IN | DEX=LA | RGF | LUG |
|----|--------|-----|-----|
|    | SHORT  |     |     |
|    | 1240   | 3   |     |

| Heater Voltage (ac/dc)        | 1.7  | volts            |
|-------------------------------|------|------------------|
| Hester Current                | 0.6  | ampere           |
| Heater Warm-up Time (Average) | +100 | seconds<br>volts |
| Peak Heater-Cathode Voltage   | ±100 | voits            |

|                    | TYP | E 2EG4 | 9        |                 |          |                |        |
|--------------------|-----|--------|----------|-----------------|----------|----------------|--------|
| SERES<br>25        |     | 07.75  | Ž.,      |                 |          |                |        |
| PLATE MILLIAMPERES |     | A QUES | ÿ/       | Ź:              | <br>3/   |                |        |
| ATE MII            |     |        | $\angle$ | 1               | (a.<br>- |                |        |
| 된.                 | /   |        | <u>/</u> |                 | <b>%</b> | 95<br>45—      |        |
|                    |     |        |          |                 | 00 2     | . 5<br> <br>50 |        |
| C                  | , 5 | (O (C  |          | SO 20<br>ATE VO |          |                | nżosti |

| Direct Interelectrode Capacitances (Approx.): Grid to Plate Grid to Cathode, Heater, and Shell Plate to Cathode, Heater, and Shell Plate to Cathode Heater to Cathode | 0.18                                 | pF<br>pF<br>pF<br>pF<br>pF  |
|---|--------------------------------------|---|
| Class A, Amplifier  |                                      |   |
| MAXIMUM RATINGS (Design-Maximum Values) Plate Supply Voltage Plate Voltage Grid Voltage: Negative-bias value Peak or dc positive value                                | 55<br>0                              | volts<br>volts<br>volts<br>volts                                  |
| Plata Dissipation   |                                      | watts<br>mA   |
| Cathode Current.  CHARACTERISTICS AND TYPICAL OPERATION  Plate Supply Voltage   | Typical Operation 70 0 47000 68 5440 | volts<br>volts<br>ohms<br>ohms<br>ohms<br>volts<br>volts<br>volts |
| Grid-Circuit Resistance:  For fixed-bias operation  | V.U                                  | megohms<br>megohm   |
| A plate supply voltage of 300 volts may be used provided that a used in the plate circuit to limit the plate dissipation to 1.5 we operation.                         | sufficiently large                   | e resistor is<br>condition of                                     |

operation. • For operation at metal-shell temperatures up to 135° C.

| Refer to chart at end of section.   | 2EN5       |
|---|------------|
| Refer to chart at end of section.   | 2ER5       |
| Refer to type 6FH5.   | 2FH5       |
| Refer to chart at end of section.<br>For replacement use type 2GK5/2FQ5A. | 2FQ5A      |
| Refer to type 6FS5.   | 2F\$5      |
| Refer to chart at end of section.   | 2GK5       |
| Refer to type 6GK5.   | 2GK5/2FQ5A |
| Refer to chart at end of section.<br>For replacement use type 2FS5.       | 2GU5       |
| For replacement use type 2HM5/2HA5.                                       | 2HA5       |
| Refer to type 6HM5/6HA5.  | 2HM5/2HA5  |
| Refer to type 6HQ5.   | 2HQ5       |
| Refer to chart at end of section.   | 3A2        |



The dc component must not exceed 18000 volts.

## HALF-WAVE VACUUM RECTIFIER

**3A2A** 

Miniature type used in high-voltage rectifier circuits of small-screen black-and-white television receivers. Outlines section, 7A; requires miniature 9-contact socket. Socket terminals 1, 3, 4, 6, and 7 may be connected to terminal 9 or to a corona shield which connects to terminal 9. Terminals 3 and 7 may be used as tie points

at or near cathode potential. For high-voltage and X-ray safety considerations, refer to page 93.

| Heater Voltage (ac/dc) Heater Current Direct Interelectrode Capacitances: Plate to Cathode, Heater, and Internal Shield   | 3.15<br>0.22<br>1                  | volts<br>ampere<br>pF               |
|---|------------------------------------|-------------------------------------|
| Pulsed Rectifier  |                                    |                                     |
| For operation in a 525-line, 30-frame system  |                                    |                                     |
| MAXIMUM RATINGS (Design-Maximum Ratings)  Peak Inverse Plate Voltage#  Peak Plate Current  Average Plate Current  Heater Voltage:  Absolute-maximum value  Absolute-minimum value | 20000<br>80<br>1.5<br>3.65<br>2.65 | volts<br>mA<br>mA<br>volts<br>volts |
| CHARACTERISTIC, Instantaneous Value Tube Voltage Drop for plate current of 7 mA  X-RADIATION CHARACTERISTIC   | 70                                 | volts                               |
| X-Radiation, Maximum: Statistical value controlled on a lot sampling basis  | 0.5<br>ycle (10                    | mR/hr<br>microseconds).             |

Caution—Operation of this tube outside of the maximum values indicated above may result in either temporary or permanent changes in the X-radiation characteristic of the tube. Equipment design must be such that these maximum values are not exceeded.