TYPE 4EN4

The 4EN4 is a miniature medium-mu triode intended primarily for use as a radio frequency amplifier in VHF television tuners. The electrical characteristics are similar to those of each section of the 6EZ7.

MECHANICAL DATA.

Coated unipotential cathode.
Outline drawing. 5-2 Bulb. T-5 1/2
Base. E7-1 Miniature Button 7-pin
Maximum diameter. 3/8"
Maximum overall length. 1 1/8"
Maximum seated height. 1 1/8"
Pin Connections. Basing 7EG
Pin 1 - Cathode.
Pin 2 - Grid.
Pin 3 - Heater.
Pin 4 - Heater.
Pin 5 - Plate.
Pin 6 - Cathode.
Pin 7 - Grid.
Mounting position. Any

ELECTRICAL DATA.

Direct Inter-electrode Capacitances - with external shield.

Grid to plate: (g1 to p) 1.24μF
Input: g1 to (h+k) 3.24μF
Output: p to (h+k) 1.44μF
Heater to cathode: (h to k) 2.84μF

Ratings Design Centre Values.

Heater voltage (A, C. or D, C.) 4.2 volts
Maximum heater-cathode voltage 100 volts
Heater positive with respect to cathode 100 volts
Heater negative with respect to cathode 0 volts
Maximum plate voltage 250 volts
Maximum positive D.C. grid voltage 2.0 watts
Maximum plate dissipation 20 milli amperes
Maximum D.C. cathode current 0.5 Megohms

Sheet 1 of 2.

from JETEC release #2226, June 23, 1958
Typical Operating Conditions and Characteristics, class A1 Amplifier.

Heater voltage (A.C. or D.C.) ............................................. 4.2 volts
Heater current ................................................................. 0.3 amperes
Plate voltage ...................................................................... 150 volts
Cathode-bias resistor .......................................................... 220 ohms
Plate resistance (approximately) ......................................... 6300 ohms
Transconductance .............................................................. 6800 microhms
Plate current ........................................................................ 9.0 milli amperes

Grid voltage, approximate ....................................................
  \( I_b = 100 \) Microamperes .............................................. \(-6\) volts
Amplification factor ............................................................ 43

Sheet 2 of 2.