

BRIMAR

**R. E. T. M. A.
REGISTRATION DATA**

TYPE 4EN4
DATE 10th March '58
ISSUED

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 6BZ7.

MECHANICAL DATA.

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

ELECTRICAL DATA.Direct Inter-electrode Capacitances ~ with external shield.

Grid to plate: (g1 to p)..... 1.244pF
Input: g1 to (h+k)..... 3.244pF
Output: p to (h+k)..... 1.444pF
Heater to cathode: (h to k)..... 2.844pF

Ratings Design Centre Values.

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

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R.E.T.M.A. REGISTRATION DATA (CONTINUED)

TYPE.....4BN4

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