

BRIMAR

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

TYPE 7001.

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TYPE 7001.

The 7001 is an indirectly heated beam tetrode intended for use as a 40-50 Mc/s amplifier in mobile equipment. It is suitable for both C.W. at 120 volts H.T. and pulsed operation, with high voltage pulses applied to the plate. In the latter application the tube is particularly useful as a driver in the doubler or tripler stages of low power mobile transmitters. Its small physical size makes it suitable for use in equipment where space is severely limited. The tube is designed for trustworthy operation under adverse conditions of mechanical vibration and shock.

MECHANICAL DATA.

Coated Unipotential cathode.

Outline drawing..... 5-2 Bulb..... T5 $\frac{1}{2}$

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 7EJ

Pin 1 - Grid No.1

Pin 5 - Plate

Pin 2 - Cathode and Beam Plate.

Pin 6 - Grid No.2.

Pin 3 - Heater.

Pin 7 - Cathode and Beam Plate.

Pin 4 - Heater.

Mounting position..... Any

ELECTRICAL DATA.Direct Inter-Electrode Capacitance - with close fitting external shield.Grid to Plate (g1 to p) max..... 0.1 μF Input: g1 to (h+k+g2+bp)..... 7.0 μF Output: p to (h+k+g2+bp)..... 8.75 μF Ratings - Absolute Maximum limiting values.

Heater voltage (A.C. or D.C.)..... 6.3 volts

Maximum heater-cathode voltage..... 175 volts

Maximum plate voltage..... 250 volts

Maximum screen grid voltage..... 250 volts

Maximum screen grid supply voltage ($I_{g_2} = 0$)..... 550 volts

Maximum plate dissipation.....	5.5 watts
Maximum screen dissipation.....	1.1 watts
Maximum bulb temperature.....	210°C
Maximum cathode current.....	55mA
Maximum plate supply voltage (I _b = 0).....	550 volts
Maximum grid No.1 circuit resistance.....	
Fixed bias.....	0.1 megohm
Self bias.....	0.5 megohm
Maximum shock (short duration).....	500g
Maximum continuous vibration.....	2.5g

Typical operation conditions and characteristics, class A1 amplifier.

Heater voltage.....	6.3 volts
Heater current.....	0.45 ampere
Plate voltage.....	120 volts
Grid No.2 voltage.....	120 volts
Grid No.1 voltage.....	0
Cathode resistor.....	250 ohms
Transconductance.....	4.8mA/V
Plate current.....	35 mA
Grid No.2 current.....	4 mA

BRIMAR VALVES

VALVE TYPE 7001.

$V_h = 6.3V$

$V_{g2} = 120V$

