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BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 6064
6AK5

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6064
HIGH SLOPE R.F. PENTODE

This valve is designed for trustworthy operation under conditions of vibration and mechanical shock. It is particularly suitable for use in wide band amplifiers and will function (in conjunction with a suitable oscillator) as a frequency changer at frequencies up to 100 m/cs.

MECHANICAL DATA:

Coated unipotential cathode.
Outline drawing ..... 5-2 Bulb T-5½
Base ..... E7-1 Miniature button 7-pin
Maximum diameter ..... 3/4"
Maximum overall length ..... 2.1/8"
Maximum seated height ..... 1.7/8"
Pin connections ..... Basing No. ~~7BD~~ 7DB

Pin 1 - Grid No. 1	Pin 5 - Plate
Pin 2 - Cathode	Pin 6 - Grid No. 3 and internal shield
Pin 3 - Heater	
Pin 4 - Heater	Pin 7 - Grid No. 2

Mounting position ..... any
Maximum shock (in intermittent service) ..... 500 g
Vibration (continuous service) ..... 2½ g
Mechanical resonance ..... None below 100 c/s

ELECTRICAL DATA:

Direct inter-electrode capacitances: *

Grid to plate ..... 0.01 pF max.
Input ..... 7.8 pF
Output ..... 3.9 pF

* With shield No. 316 connected to cathode.

60060/100

Standard Telephones and Cables Limited
BRIMAR VALVE WORKS, FOOTSCRAY, KENT, ENGLAND.

Ratings:

Heater voltage (ac or dc)	6.3 volts
Heater current	0.3 amp
Maximum heater-cathode voltage	90 volts
Maximum plate voltage	250 volts
Maximum plate dissipation	2.5 watts
Maximum Grid No. 2 voltage	250 volts
Maximum Grid No. 2 dissipation	0.8 watts

Typical operating characteristics:

Suppressor grid (Grid No. 3) connected to cathode			
Anode voltage	200	250	volts
Anode current	9.0	10.0	mA
Screen voltage	200	250	volts
Control grid (Grid No. 1) voltage	-1.5	-2.0	volts
Cathode bias resistor	135	160	ohms
Plate impedance (approx.)	0.8	1.0	megohms
Mutual conductance	7.5	7.5	mA/V
Inner amplification factor ($\mu g1-g2$)	70	70	

60060/100A