

BRIMAR VALVES

TYPE **6042**

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R.M.A. REGISTRATION DATA

6042

TRUSTWORTHY DOUBLE TRIODE

The 6042 is a double triode designed for trustworthy operation under conditions of vibration and mechanical shock. The heaters of the two triode units are connected in series, so that failure of either heater renders both units inoperative. The electrical characteristics, except for the heater rating are similar to the 6SN7GT, but the maximum ratings have been reduced.

MECHANICAL DATA.

Coated unipotential cathode.

Outline drawing.....	9-3	Bulb.....	T-9
Base.....	B.8.6		
Maximum Diameter.....			1.9/22"
Maximum overall length.....			2.7/8"
Maximum seated height.....			2.5/16"
Pin connections.....		Basing Number	8BD

Pin 1 - Grid of triode 2.	Pin 5 - Plate of triode 1.
Pin 2 - Plate of triode 2.	Pin 6 - Cathode of triode 1.
Pin 3 - Cathode of triode 2.	Pin 7 - Heater
Pin 4 - Grid of triode 1.	Pin 8 - Heater

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.

Triode 1.

Grid to Plate.....	3.5 µµf
Grid to Cathode.....	2.3 µµf
Plate to Cathode.....	2.5 µµf

Triode 2.

Grid to Plate.....	3.3 μ f
Grid to Cathode.....	2.6 μ f
Plate to Cathode.....	2.7 μ f
Plate to Plate.....	0.4 μ f

RATINGS.

Heater Voltage (ac or dc).....	25 volts
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VALUES FOR EACH SECTION.

Maximum Heater - Cathode Voltage.....	90 volts
Maximum Plate Voltage.....	250 volts
Maximum Negative Grid Voltage.....	100 volts
Maximum Positive Grid Voltage.....	0 volts
Maximum Plate Dissipation.....	2.25 watts
Maximum Grid circuit resistance.....	1.0 megohms

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS.

Heater Voltage.....	25 volts
Heater Current.....	0.15 amp.

VALUES FOR EACH SECTION.

Plate Voltage.....	100	250 volts
Grid Voltage.....	0	-9 volts
Plate Current.....	10.6	6.5 mA
Plate Current for Grid Voltage of -24 volts		15 μ A MAX
Plate Resistance.....	8,000	9,100 ohms
Transconductance.....	2,500	2,200 μ hos
Amplification Factor.....	20	20