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BRIMAR VALVES

R.M.A. REGISTRATION DATA

TYPE 6180

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6180

TRUSTWORTHY DOUBLE TRIODE

The 6180 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 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 ..... 1.9/32"
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) 500g
Vibration (continuous service) ..... $2\frac{1}{2}$g
Mechanical resonance ..... None below 100c/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

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Triode 2

Grid to plate	3.3 µµf
Grid to Cathode	2.6 µµf
Plate to Cathode	2.7 µµf
Plate to Plate	0.4 µµf

RATINGS

Heater voltage (ac or dc)	6.3 volts

VALUES FOR EACH SECTION

Maximum heater-cathode voltage	90 volts
Maximum plate voltage	300 volts
Maximum negative grid voltage	100 volts
Maximum positive grid voltage	0 volt
Maximum plate dissipation	2.25 watts
Maximum grid circuit resistance	1.0 megohms

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

Heater voltage	6.3 volts
Heater current	0.6 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		15µA Max.
Plate resistance	8000	9,100 ohms
Transconductance	2500	2,200 µmhos
Amplification factor	20	20

60060/100A