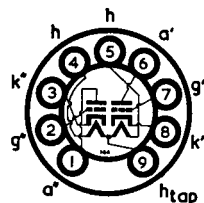


TYPE 6158 TRUSTWORTHY DOUBLE TRIODE (Medium Mu)



The BRIMAR type 6158 is an indirectly-heated double triode, having a rigid structure to reduce microphony. It is particularly suitable as a D.C. amplifier due to its stable characteristics.

RATINGS

| | | | | | | | | |
|----------------------------------|-----|-----|-----|-----|-----|-----|------|-----------------|
| Heater Voltage | ... | ... | ... | ... | 6.3 | or | 12.6 | volts |
| Heater Current | ... | ... | ... | ... | 0.6 | | 0.3 | amp. |
| Anode Voltage ($I_a = 0$) | ... | ... | ... | ... | ... | ... | 500 | volts max. |
| Anode Voltage | ... | ... | ... | ... | ... | ... | 300 | volts max. |
| Anode Dissipation (each section) | ... | ... | ... | ... | ... | ... | 5 | watts max. |
| Cathode Current | ... | ... | ... | ... | ... | ... | 35 | mA max. |
| Negative Grid Voltage | ... | ... | ... | ... | ... | ... | 75 | volts max. |
| Average Grid Current | ... | ... | ... | ... | ... | ... | 7 | mA max. |
| Grid Resistor (Fixed Bias) | ... | ... | ... | ... | ... | ... | 250 | k Ω max. |
| Grid Resistor (Auto Bias) | ... | ... | ... | ... | ... | ... | 1.5 | M Ω max. |

OPERATING CHARACTERISTICS

$V_a = 250$ V, $V_g = -4.6$ V, $V_h = 12.6$ V (series connection)

| | Min. | Bogey | Max. | |
|----------------------|------|-------|------|------------|
| Anode Current | 3.5 | 6.0 | 8.5 | mA |
| Amplification Factor | 27 | 32 | 37 | |
| Mutual Conductance | 1.7 | 2.35 | 3.0 | mA/V |
| Anode Impedance | — | 14 | | k Ω |

OPERATION AS A PUSH-PULL ZERO BIAS CLASS B AMPLIFIER

| | | | | | | |
|-------------------------------------|-----|-----|-----|-----|------|------------|
| Anode Voltage | ... | ... | ... | ... | 250 | volts |
| Grid Voltage | ... | ... | ... | ... | 0 | volts |
| Anode Current (Zero Signal) | ... | ... | ... | ... | 39 | mA |
| Anode Current (Max. Signal) | ... | ... | ... | ... | 43.2 | mA |
| Output Load Impedance (Anode-Anode) | ... | ... | ... | ... | 20 | k Ω |
| R.M.S. Input Voltage | ... | ... | ... | ... | 32 | volts |
| Grid Current | ... | ... | ... | ... | 12.8 | mA |
| Total Harmonic Distortion | ... | ... | ... | ... | 11.5 | % |
| Power Output | ... | ... | ... | ... | 6.7 | watts |

INTER-ELECTRODE CAPACITANCES*

| | Section 1 | Section 2 | |
|--------------------|-----------|-----------|-----------|
| Input | 2.2 | 2.2 | pF |
| Output | 2.0 | 2.0 | pF |
| Grid to Anode | 1.9 | 1.9 | pF |
| Heater to Cathode | 4.9 | 4.9 | pF |
| Grid 1 to Anode 2 | ... | ... | 0.02 pF |
| Grid 2 to Anode 1 | ... | ... | 0.035 pF |
| Anode 1 to Anode 2 | ... | ... | 0.46 pF |
| Grid 1 to Grid 2 | ... | ... | 0.0035 pF |

* With no external shield.

Type 6158 is a commercial equivalent to CV4068.

