TUNG-SOL

CLASS B TWIN TRIODE AMPLIFIER

COATED FILAMENT

1.4 VOLTS 0.10 AMPERE
DC

GLASS BULB

INTERMEDIATE 8 PIN OCTAL BASE

THE TUNG-SOL 1G6GT/G IS A LOW VOLTAGE, LOW CURRENT DRAIN, TWIN TRIODE AMPLIFIER. IT IS DESIGNED FOR SERVICE AS A ZERO BIAS CLASS "B" POWER AMPLIFIER.

RATINGS

MAXIMUM FILAMENT VOLTAGE

DRY BATTERY OPERATION — VOLTAGE MUST NEVER EXCEED 1.6 VOLTS
AC — DC POWER LINE OPERATION — DESIGN CENTER 1.3 VOLTS
MAXIMUM PLATE VOLTAGE PER PLATE 110 VOLTS
MAXIMUM PEAK PLATE CURRENT PER PLATE 20 MA.

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS B POWER AMPLIFIER

VALUES ARE FOR 2 UNITS UNLESS OTHERWISE SPECIFIED

| PLATE VOLTAGE | 90 | 90 VOLTS |
| DC GRID VOLTAGE | 0 | 0 VOLTS |
| PEAK AF SIGNAL VOLTAGE GRID TO GRID | 42 | 48 VOLTS |
| ZERO SIGNAL DC PLATE CURRENT | 2 | 2 MA. |
| MAXIMUM SIGNAL DC PLATE CURRENT | 14 | 11 MA. |
| PEAK GRID CURRENT PER UNIT | 5 | 6 MA. |
| PLATE SUPPLY IMPEDANCE | 0 | 0³ OHMS |
| EFFECTIVE GRID CIRCUIT IMPEDANCE PER UNIT | 0 | 2530⁶ OHMS |
| EFFECTIVE LOAD RESISTANCE PLATE TO PLATE | 12000 | 12000 OHMS |
| TOTAL HARMONIC DISTORTION | 3 | 4 PER CENT |
| POWER OUTPUT APPROX. | 0.675 | 0.350 WATT |

A RETURN TO NEGATIVE FILAMENT TERMINAL (PIN #1).
B INCLUDES PEAK GRID IMPEDANCE VOLTAGE DROP.
C BATTERY SUPPLY.
D AT 400 CYCLES THE EFFECTIVE RESISTANCE PER GRID CIRCUIT IS 2500 OHMS, AND THE LEAKAGE REACTANCE OF THE COUPLING TRANSFORMER IS 355 MILLIHENRYS.

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TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A1 AMPLIFIER
EACH TRIODE UNIT

FILAMENT VOLTAGE 1.4 DC VOLTS
FILAMENT CURRENT 0.1 AMPERE
PLATE VOLTAGE 90 VOLTS
CONTROL GRID VOLTAGE A 0 VOLTS
PLATE CURRENT 1.0 MA.
PLATE RESISTANCE APPROX. 45000 OHMS
TRANSCONDUCTANCE 675 ΩMhos
AMPLIFICATION FACTOR 30

A REFERRED TO NEGATIVE FILAMENT TERMINAL.