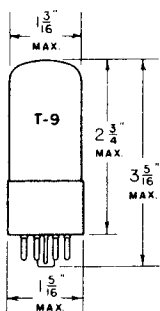


TUNG-SOL



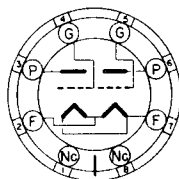
CLASS B TWIN TRIODE AMPLIFIER

COATED FILAMENT

1.4 VOLTS 0.10 AMPERE
DC

GLASS BULB

INTERMEDIATE 8 PIN OCTAL BASE



7AB-0-0

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 ^A	0	0	VOLTS
PEAK AF SIGNAL VOLTAGE ^{GRID TO GRID B}	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	0 ^C	OHMS
EFFECTIVE GRID CIRCUIT IMPEDANCE ^{PER UNIT}	0	2530 ^D	OHMS
EFFECTIVE LOAD RESISTANCE ^{PLATE TO PLATE}	12 000	12 000	OHMS
TOTAL HARMONIC DISTORTION	3	4	PER CENT
POWER OUTPUT ^{APPROX.}	0.675	0.350	WATT

^A RETURN TO NEGATIVE FILAMENT TERMINAL (PIN #7).

^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 155 MILLIHENRYS.

PLATE
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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.	45 000	OHMS
TRANSCONDUCTANCE	675	μMHMS
AMPLIFICATION FACTOR	30	

^A REFERRED TO NEGATIVE FILAMENT TERMINAL.

