TUNG-SOL

DOUBLE TRIODE
MINIATURE TYPE

COATED UNIPOTENTIAL CATHODE

HEATER

SERIES
12.6 VOLTS
225 MA.

PARALLEL
6.3 VOLTS
450 MA.

AC OR DC

BOTTOM VIEW
MINIATURE BUTTON 9 PIN BASE

ANY MOUNTING POSITION

FOR 12.6 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PINS #4 AND #5. FOR 6.3 VOLT OPERATION APPLY HEATER VOLTAGE BETWEEN PIN #4 AND PINS #4 AND #5 CONNECTED TOGETHER.

THE 12AV7 COMBINES TWO INDEPENDENT MEDIUM—MU TRIODES USING THE 9 PIN MINIATURE CONSTRUCTION. IT IS ADAPTABLE TO APPLICATION EITHER AS AN AF AMPLIFIER OR AS COMBINED OSCILLATOR AND MIXER.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE: (G TO P) EACH SECTION
1.9 µf

INPUT: G TO (H+K) EACH SECTION
3.1 µf

OUTPUT: P TO (H+K) SECTION #1
0.5 µf

SECTION #2
0.4 µf

HEATER TO CATHODE: (H TO K) EACH SECTION
3.8 µf

GROUNDED GRID

PLATE TO CATHODE: (P TO K) EACH SECTION
0.24 µf

INPUT: K TO (H+G) EACH SECTION
6.9 µf

OUTPUT: P TO (H+G) SECTION #1
2 µf

SECTION #2
2 µf

RATINGS
INTERPRETED ACCORDING TO EIA STANDARD MB-210

EACH TRIODE UNIT

HEATER VOLTAGE
6.3 12.6 VOLTS

MAXIMUM HEATER—CATHODE VOLTAGE
90 VOLTS

MAXIMUM PLATE VOLTAGE
300 VOLTS

MAXIMUM NEGATIVE DC GRID VOLTAGE
-50 VOLTS

MAXIMUM PLATE DISSIPATION
2.7 WATTS

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A 1 AMPLIFIER — EACH TRIODE UNIT

HEATER VOLTAGE
6.3 12.6 6.3 12.6 VOLTS

HEATER CURRENT
450 225 450 225 MA.

PLATE VOLTAGE
100 150 VOLTS

CATHODE BIAS RESISTOR
120 56 OHMS

PLATE CURRENT
9 18 MA.

PLATE RESISTANCE
6 10 8 800 OHMS

TRANSCONDUTANCE
6 10 8 500 MHMS

AMPLIFICATION FACTOR
37 41

GRID VOLTAGE (APPROX.)
FOR I, = 10 MA.

-9 -12 VOLTS