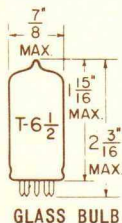


TUNG-SOL

DOUBLE TRIODE

MINIATURE TYPE



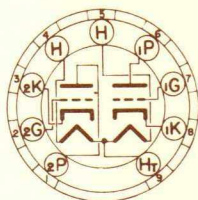
COATED UNIPOTENTIAL CATHODE

HEATER

12.6 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
MINIATURE BUTTON
9 PIN BASE

9A

THE 12U7 CONTAINS TWO INDEPENDENT MEDIUM MU TRIODES WITH UNIPOTENTIAL CATHODES IN THE 9-PIN MINIATURE CONSTRUCTION. EACH SECTION IS INTENDED FOR USE AS A GENERAL PURPOSE TRIODE WHERE THE HEATER AND PLATE POTENTIALS ARE OBTAINED DIRECTLY FROM AN AUTOMOTIVE BATTERY.

DIRECT INTERELECTRODE CAPACITANCES

TRIODE UNIT #1

GRID TO PLATE: (G TO P)

INPUT: G TO (H+K)

OUTPUT: P TO (H+K)

WITH
SHIELD #315

1.5

1.8

2.0

WITHOUT
SHIELD

1.5

1.6

0.40

 $\mu\mu f$ $\mu\mu f$ $\mu\mu f$

TRIODE UNIT #2

GRID TO PLATE: (G TO P)

INPUT: G TO (H+K)

OUTPUT: P TO (H+K)

1.5

1.8

2.0

1.5

1.6

0.32

 $\mu\mu f$ $\mu\mu f$ $\mu\mu f$

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

CLASS A₁ AMPLIFIER

HEATER VOLTAGE* (APPLIED TO PINS #4 & #5)

MAXIMUM HEATER-CATHODE VOLTAGE

MAXIMUM PLATE VOLTAGE

MAXIMUM CATHODE CURRENT

MAXIMUM GRID CIRCUIT RESISTANCE

FIXED BIAS OPERATION

CATHODE BIAS OPERATION

12.6

±30

30

15

0.25

1.0

VOLTS

VOLTS

VOLTS

MA.

MEGOHM

MEGOHM

* THIS TUBE IS INTENDED TO BE USED IN AUTOMOTIVE SERVICE FROM A NOMINAL 12 VOLT BATTERY SOURCE. THE HEATER IS THEREFORE DESIGNED TO OPERATE OVER THE 10.0 TO 15.9 VOLTAGE RANGE ENCOUNTERED IN THIS SERVICE. THE MAXIMUM RATINGS OF THE TUBE PROVIDE FOR AN ADEQUATE SAFETY FACTOR SUCH THAT THE TUBE WILL WITHSTAND THE WIDE VARIATION IN SUPPLY VOLTAGES.

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
CLASS A₁ AMPLIFIER - EACH SECTION

HEATER VOLTAGE	12.6	VOLTS
HEATER CURRENT	0.15	AMP.
PLATE VOLTAGE	12.6	VOLTS
GRID VOLTAGE	0	VOLTS
PLATE CURRENT	1.0	MA.
PLATE RESISTANCE (APPROX.)	12 500	OHMS
TRANSCONDUCTANCE	1 600	μMHOS
AMPLIFICATION FACTOR	20	
GRID VOLTAGE FOR I _b = 10 μA (APPROX.)	-1.5	VOLTS

