

TUNG-SOL

DOUBLE TRIODE

MINIATURE TYPE

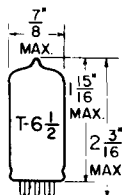
COATED UNIPOTENTIAL CATHODE

HEATER

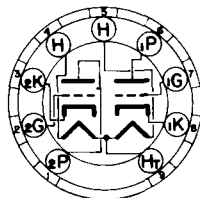
12.6 VOLTS 0.15 AMP.

AC OR DC

ANY MOUNTING POSITION



GLASS BULB



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	WITH SHIELD #315	WITHOUT SHIELD	
GRID TO PLATE: (G TO P)	1.5	1.5	$\mu\mu f$
INPUT: G TO (H+K)	1.8	1.6	$\mu\mu f$
OUTPUT: P TO (H+K)	2.0	0.40	$\mu\mu f$
 TRIODE UNIT #2			
GRID TO PLATE: (G TO P)	1.5	1.5	$\mu\mu f$
INPUT: G TO (H+K)	1.8	1.6	$\mu\mu f'$
OUTPUT: P TO (H+K)	2.0	0.32	$\mu\mu f$

RATINGS

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM
CLASS A₁ AMPLIFIER

HEATER VOLTAGE* (APPLIED TO PINS #4 & #5)	12.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	± 30	VOLTS
MAXIMUM PLATE VOLTAGE	30	VOLTS
MAXIMUM CATHODE CURRENT	15	MA.
MAXIMUM GRID CIRCUIT RESISTANCE		
FIXED BIAS OPERATION	0.25	MEGOHM
CATHODE BIAS OPERATION	1.0	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.

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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

