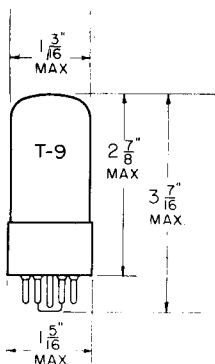


TUNG-SOL

COMBINED HALF WAVE RECTIFIER  
AND BEAM POWER AMPLIFIER



GLASS BULB

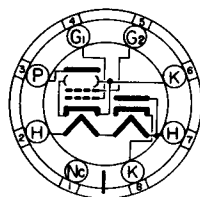
COATED UNIPOTENTIAL CATHODES

HEATER

117 VOLTS 0.09 AMPERE

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

INTERMEDIATE SHELL  
8-PIN OCTAL

THE 117N7GT IS A MULTI-UNIT TUBE CONTAINING A HALF-WAVE RECTIFIER AND A BEAM POWER AMPLIFIER IN THE SAME ENVELOPE. IT IS DESIGNED WITH A HEATER FOR CONNECTION DIRECTLY ACROSS A 117-VOLT SUPPLY LINE.

## RATINGS

INTERPRETED ACCORDING TO RMA STANDARD M8-210

HEATER VOLTAGE (AC OR DC)	117	VOLTS
HEATER CURRENT	0.09	AMP.

## RECTIFIER UNIT

MAX. PEAK INVERSE PLATE VOLTAGE	350	VOLTS
MAX. PEAK PLATE CURRENT	450	MA.
MAX. DC HEATER-CATHODE POTENTIAL	175	VOLTS

## WITH CONDENSER-INPUT FILTER:

MAX. AC PLATE VOLTAGE (RMS)	117	VOLTS
MAX. DC OUTPUT CURRENT	75	MA.
MIN. TOTAL EFFECTIVE PLATE SUPPLY IMPEDANCE <sup>A</sup>	15	OHMS

<sup>A</sup>WHEN A FILTER-INPUT CONDENSER LARGER THAN 40  $\mu$ F IS USED, IT MAY BE NECESSARY TO USE ADDITIONAL PLATE-SUPPLY IMPEDANCE TO LIMIT THE PEAK PLATE CURRENT TO RATED VALUE.

CONTINUED ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## AMPLIFIER UNIT

MAX. PLATE VOLTAGE	117	VOLTS
MAX. SCREEN VOLTAGE	117	VOLTS
MAX. PLATE DISSIPATION	5.5	WATTS
MAX. SCREEN DISSIPATION	1	WATT

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

PLATE VOLTAGE	100	VOLTS
SCREEN VOLTAGE	100	VOLTS
GRID VOLTAGE <sup>B</sup>	-6	VOLTS
PEAK AF GRID VOLTAGE	6	VOLTS
ZERO-SIGNAL PLATE CURRENT	51	MA.
ZERO-SIGNAL SCREEN CURRENT	5	MA.
PLATE RESISTANCE (APPROX.)	16 000	OHMS
LOAD RESISTANCE	3000	OHMS
TRANSCONDUCTANCE	7000	μMHOS
TOTAL HARMONIC DISTORTION	6	PER CENT
MAX. SIGNAL POWER OUTPUT	1.2	WATTS

<sup>B</sup> TYPE OF INPUT COUPLING USED SHOULD NOT INTRODUCE TOO MUCH RESISTANCE IN THE GRID CIRCUIT. RESISTANCE SHOULD NOT EXCEED 0.25 MEGOHM WITH FIXED BIAS, NOR 1.0 MEGOHM WITH CATHODE BIAS.