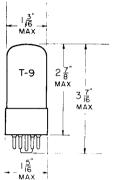
# PRINTED IN U. S. J

# COMBINED HALF WAVE RECTIFIER AND BEAM POWER AMPLIFIER



COATED UNIPOTENTIAL CATHODES

HEATER

117 VOLTS 0.09 AMPERE
AC OR DC

ANY MOUNTING POSITION



GLASS BULB

HEATER VOLTAGE (AC OR DC)

#### BOTTOM VIEW

117

INTERMEDIATE SHELL 8-PIN OCTAL

**VOLTS** 

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 CURRENT	0.09	AMP.
RECTIFIER UNIT		
MAX. PEAK INVERSE PLATE VOLTAGE MAX. PEAK PLATE CURRENT MAX. DC HEATER-CATHODE POTENTIAL	350 450 175	VOLTS MA. VOLTS
WITH CONDENSER-INPUT FILTER:  MAX. AC PLATE VOLTAGE (RMS)  MAX. DC OUTPUT CURRENT  MIN. TOTAL E FECTIVE PLATE SUPPLY IMPEDANCE A	117 75 15	VOLTS MA. OHMS

Awhen a filter-imput combenser 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

PLATE 1615 OCT. 15, 1945

## TUNG-SOL -

#### CONTINUED FROM PRECEDING FAGE

#### 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 A1 AMPLIFIER

PLATE VOLTAGE	100	VOLTS
Screen voltage	100	VOLTS
GRID VOLTAGE B	-6	VOLTS
PEAK AF GRID VOLTAGE	6	VOLTS
ZERO—SIGNAL PLATE CURRENT	51	MA.
ZERO-SIGNAL SCREEN CUNRENT PLATE RESISTANCE (APPROX.)	5 16 000	MA. OHMS
LOAD RESISTANCE	3000	OHMS
Transconductance	7000	LLMHOS
TOTAL HARMONIC DISTORTION MAX. SIGNAL POWER OUTPUT	6 1.2	PER CENT

B TYPE OF INPUT COUPLING USED SHOULD NOT INTRODUCE TOO MUCH RESISTANCE IN THE GRID CIRCUIT.
RESISTANCE SHOULD NOT EXCEED 0-25 MEGOHW WITH FIXED BIAS, NOR 1-0 MEGOHW WITH CATHODE BIAS.

PLATE 1616 OCT. 15: 1945