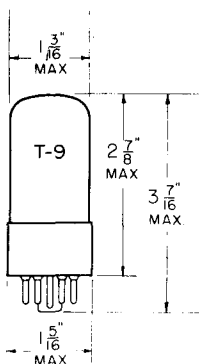


TUNG-SOL

COMBINED HALF WAVE RECTIFIER AND BEAM POWER AMPLIFIER



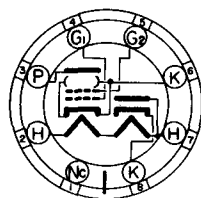
GLASS BULB

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 ^A	15	OHMS

^A WHEN A FILTER-INPUT CONDENSER LARGER THAN 40 μ 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 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 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

^B 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.