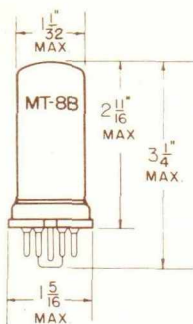


TUNG-SOL

PENTODE



METAL SHELL

COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.65 AMPERE

AC OR DC

ANY MOUNTING POSITION ←
 HORIZONTAL OPERATION PERMITTED IF
 PINS 2 & 7 ARE IN A VERTICAL PLANE.



BOTTOM VIEW
 SMALL WAFER
 8 PIN OCTAL

THE 6AG7 IS A POWER OUTPUT PENTODE USING THE OCTAL BASE AND METAL SHELL CONSTRUCTION. IT HAS HIGH PERVEANCE, LOW CAPACITANCES, AND THE POWER REQUIREMENTS NECESSARY FOR EITHER STRAIGHT VIDEO OUTPUT AMPLIFIER OR CATHODE FOLLOWER SERVICE.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE: (G TO P) MAX.	0.06	μuf
INPUT: G TO (H+K+G ₂ +G ₃ +S) ←	13	μuf
OUTPUT: P TO (H+K+G ₂ +G ₃ +S) ←	7.5	μuf
GRID #1 TO GRID #2: (G ₁ TO G ₂) APPROX.	5.8	μuf
GRID #1 TO CATHODE: (G ₁ TO K) APPROX.	5.2	μuf
HEATER TO CATHODE: (H TO K) APPROX.	10.7	μuf

* PINS #1 AND #3 CONNECTED TO PIN #5.

RATINGS

INTERPRETED ACCORDING TO RMA STANDARD MB-210

HEATER VOLTAGE (SHOULD NOT DEVIATE MORE THAN 10%)	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	90	VOLTS
MAXIMUM PLATE VOLTAGE	300	VOLTS
MAXIMUM GRID #2 VOLTAGE	300	VOLTS
MINIMUM NEGATIVE DC GRID #1 VOLTAGE	0	VOLTS
MAXIMUM PLATE DISSIPATION	9	WATTS
MAXIMUM SCREEN DISSIPATION	1.5	WATTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE (FIXED BIAS)	0.25	MEGOHM
MAXIMUM GRID #1 CIRCUIT RESISTANCE (SELF BIAS)	1	MEGOHM

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A₁ AMPLIFIER

HEATER VOLTAGE (SHOULD NOT DEVIATE MORE THAN 10%)	6.3	VOLTS
HEATER CURRENT	0.65	AMP.
PLATE VOLTAGE	300	VOLTS
GRID #2 VOLTAGE	150	VOLTS
GRID #1 VOLTAGE	-3	VOLTS
PEAK AF GRID #1 VOLTAGE	3	VOLTS
ZERO-SIGNAL PLATE CURRENT	30	MA.
ZERO-SIGNAL GRID #2 CURRENT (NOMINAL)	7	MA.
MAXIMUM-SIGNAL PLATE CURRENT	30.5	MA.
MAXIMUM-SIGNAL SCREEN CURRENT (NOMINAL)	9	MA.
PLATE RESISTANCE (APPROX.)	0.13	MEGOHM
TRANSCONDUCTANCE	11 000	μMHOS
LOAD RESISTANCE	10 000	OHMS
TOTAL HARMONIC DISTORTION	7	PERCENT
POWER OUTPUT	3	WATTS

VIDEO VOLTAGE AMPLIFIER - CLASS A₁

4 MC BANDWIDTH

	GRID LEAK BIAS ^A	CATHODE BIAS	
HEATER VOLTAGE	6.3	6.3	VOLTS
HEATER CURRENT	0.65	0.65	AMP.
PLATE SUPPLY VOLTAGE	300	300	VOLTS
GRID #2 VOLTAGE	115 ^B	125 ^C	VOLTS
GRID #1 VOLTAGE	0 ^D	-2	VOLTS
GRID #1 RESISTOR (MINIMUM)	0.25	---	MEGOHM
GRID #1 RESISTOR (MAXIMUM)	0.5	---	MEGOHM
CATHODE RESISTOR (BY-PASSED BY 250 μF APPROX.)	---	57	OHMS
ZERO-SIGNAL PLATE CURRENT	45	28	MA.
ZERO-SIGNAL GRID #2 CURRENT (NOMINAL)	13	7	MA.
LOAD RESISTANCE	3 500	3 500	OHMS
PEAK TO PEAK GRID SIGNAL SWING	4	4	VOLTS
PEAK TO PEAK VOLTAGE OUTPUT	135	140	VOLTS
INTERLEAD SHIELD		CONNECTED TO GROUND	

^A TO BE USED WHERE RESISTORATION IS ACCOMPLISHED IN THE GRID CIRCUIT.^B OBTAINED FROM SUPPLY HAVING GOOD REGULATION.^C OBTAINED PREFERABLY FROM THE 300 VOLT PLATE SUPPLY THROUGH A 25000 OHM SERIES SCREEN RESISTOR.^D ZERO-SIGNAL VALUE.