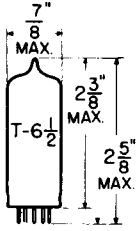


**TUNG-SOL**

PENTODE  
MINIATURE TYPE



GLASS BULB

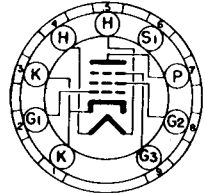
COATED UNIPOTENTIAL CATHODE

HEATER

3.4 VOLTS 0.60 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

9A9

THE 3BX6 IS A PENTODE IN THE 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS AN R.F., I.F. OR A VIDEO AMPLIFIER OR MIXER IN TELEVISION RECEIVERS. EXCEPT FOR HEATER RATINGS, THE 3BX6 IS IDENTICAL TO THE 12BX6.

**DIRECT INTERELECTRODE CAPACITANCES**

GRID #1 TO ALL OTHER ELEMENTS EXCEPT ANODE	7.5	μf
PLATE TO ALL OTHER ELEMENTS EXCEPT GRID #1	3.3	μf
PLATE TO GRID #1 (MAX.)	0.007	μf
PLATE TO CATHODE (MAX.)	0.012	μf
GRID #2 TO ALL OTHER ELEMENTS	5.4	μf
GRID #2 TO GRID #1	2.6	μf
GRID #1 TO HEATER (MAX.)	0.15	μf
CATHODE TO HEATER	5	μf

**RATINGS**

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

HEATER VOLTAGE	3.4	VOLTS
MAXIMUM PLATE VOLTAGE WITHOUT CURRENT	550	VOLTS
MAXIMUM PLATE VOLTAGE	250	VOLTS
MAXIMUM PLATE DISSIPATION	2.5	WATTS
MAXIMUM GRID #2 VOLTAGE WITH COLD CATHODE	550	VOLTS
MAXIMUM GRID #2 VOLTAGE	250	VOLTS
MAXIMUM GRID #2 DISSIPATION	0.7	WATTS
MAXIMUM GRID #2 DISSIPATION AT PLATE DISSIPATION < 1.8 WATTS	0.9	WATTS
MAXIMUM CATHODE CURRENT	15	MAMPS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	1	MEGOHM
MAXIMUM VOLTAGE BETWEEN CATHODE AND HEATER	150	VOLTS
MAXIMUM CIRCUIT RESISTANCE BETWEEN CATHODE AND HEATER	20 000	OHMS

CONTINUED ON FOLLOWING PAGE

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## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## R.F. AMPLIFIER

HEATER VOLTAGE	3.4	3.4	3.4	VOLTS
HEATER CURRENT	0.60	0.60	0.60	AMP.
PLATE VOLTAGE	170	200	250	VOLTS
GRID #3 VOLTAGE	0	0	0	VOLT
GRID #2 VOLTAGE	170	200	250	VOLTS
GRID #1 VOLTAGE	-2.0	-2.55	-3.5	VOLTS
PLATE CURRENT	10	10	10	MAMPS
GRID #2 CURRENT	2.5	2.6	2.8	MAMPS
TRANSCONDUCTANCE	7400	7100	6800	μMHOS
PLATE RESISTANCE	0.5	0.55	0.65	MEGOHM
AMPLIFICATION FACTOR OF				
GRID #2 WITH RESPECT TO GRID #1	50	50	50	
EQUIVALENT NOISE RESISTANCE	1000	1100	1200	OHMS
INPUT RESISTANCE AT FREQUENCY =				
50 MC (PIN 1 CONNECTED TO PIN 3)	10 000	12 000	15 000	OHMS

## OBSERVATION

WHEN USING THE 3BX6 AS VIDEO AMPLIFIER THE AMPLIFICATION BETWEEN THE INPUT GRID OF THE 3BX6 AND THE INPUT OF THE CATHODE RAY TUBE SHOULD NOT EXCEED A VALUE OF 25, IN ORDER TO PREVENT MICROPHONIC EFFECT.