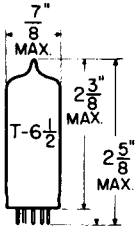
TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

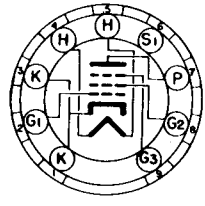
COATED UNIPOTENTIAL CATHODE

HEATER

3.4 VOLTS 0.60 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

9AQ

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

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

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.