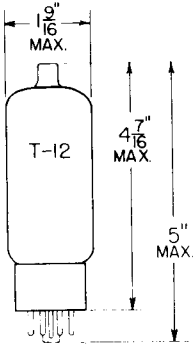


TUNG-SOL

BEAM PENTODE



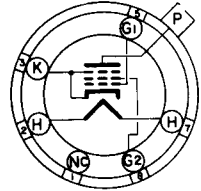
GLASS BULB

HEATER
6.3 VOLTS 2.25 AMP.

AC OR DC

VERTICAL MOUNTING POSITION

HORIZONTAL OPERATION IS PERMITTED IF PINS 2 AND 7 ARE IN A VERTICAL PLANE



BOTTOM VIEW

SHORT MEDIUM-SHELL
5 PIN OCTAL
WITH
EXTERNAL BARRIERS

58T

THE 6EX6 IS A BEAM-POWER PENTODE DESIGNED PRIMARILY FOR USE AS THE HORIZONTAL-DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS WHICH INCORPORATE LARGE-DEFLECTION-ANGLE PICTURE TUBES. FEATURES OF THE TUBE INCLUDE AN EXTREMELY HIGH PERVEANCE, HIGH PLATE CURRENT AT LOW PLATE AND SCREEN VOLTAGES, AND A HIGH RATIO OF PLATE TO SCREEN CURRENT. EXCEPT FOR HEATER RATINGS, THE 6EX6 IS IDENTICAL TO THE 21X6.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

GRID #1 TO PLATE	1.1	μf f
INPUT	22	μf f
OUTPUT	8.5	μf f

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

HORIZONTAL-DEFLECTION AMPLIFIER SERVICE^A

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM DC PLATE-SUPPLY VOLTAGE (BOOST + DC POWER SUPPLY)	770	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (ABS. MAX.)	7000	VOLTS
MAXIMUM PEAK NEGATIVE PULSE PLATE VOLTAGE (ABS. MAX.)	1500	VOLTS
MAXIMUM SCREEN VOLTAGE	195	VOLTS
MAXIMUM PEAK NEGATIVE GRID #1 VOLTAGE	220	VOLTS
MAXIMUM PLATE DISSIPATION ^B	22	WATTS
MAXIMUM SCREEN DISSIPATION	3.5	WATTS
MAXIMUM DC CATHODE CURRENT	220	MA.
MAXIMUM PEAK CATHODE CURRENT	770	MA.
MAXIMUM HEATER CATHODE VOLTAGE:		
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC COMPONENT	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
MAXIMUM GRID #1 CIRCUIT RESISTANCE	0.47	MEG OHMS
BULB TEMPERATURE AT HOTTEST POINT	225	°C

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

AVERAGE CHARACTERISTICS

HEATER VOLTAGE	5.5	6.5	6.5	VOLTS
HEATER CURRENT	2.25	3.25	2.25	AMP.
PLATE VOLTAGE	60	60	175	VOLTS
SCREEN VOLTAGE	125	150	175	VOLTS
GRID #1 VOLTAGE	0 ^C	0 ^C	-30	VOLTS
PLATE RESISTANCE (APPROX.)			8500	OHMS
TRANSCONDUCTANCE			7700	μMHOS
PLATE CURRENT	360	460	67	MA.
SCREEN CURRENT	30	45	3.3	MA.
GRID #1 VOLTAGE (APPROX.) FOR $I_b = 1.0$ MA.			-50	VOLTS
TRIODE AMPLIFICATION FACTOR WITH $E_b = E_{c2} = 175$ V.			4.2	
GRID #1 VOLTAGE WITH $E_b = 5000$ V. FOR $I_b = 1.0$ MA.	-88	-94	-101	VOLTS

^AFOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS: FEDERAL COMMUNICATIONS COMMISSION", THE DUTY CYCLE OF THE VOLTAGE PULSE MUST NOT EXCEED 15% OF ONE SCANNING CYCLE.

^BIN STAGES OPERATING WITH GRID LEAK BIAS, AN ADEQUATE CATHODE BIAS RESISTOR OR OTHER SUITABLE MEANS IS REQUIRED TO PROTECT THE TUBE IN THE ABSENCE OF EXCITATION.

^CAPPLIED FOR VERY SHORT INTERVAL SO AS NOT TO DAMAGE TUBE.