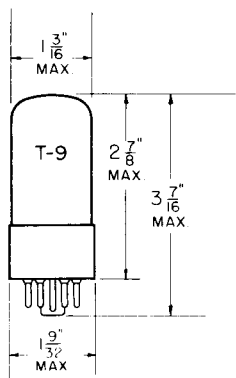


## TUNG-SOL

## TRIODE



GLASS BULB

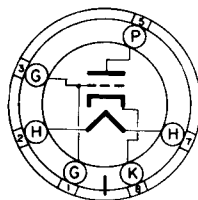
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 1.25 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

SHORT INTERMEDIATE  
SHELL 6 PIN OCTAL

8J8

THE 6CK4 IS A LOW MU TRIODE INTENDED FOR USE PRIMARILY AS A VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS. CONTAINED IN A T-9 ENVELOPE, THE TUBE HAS A HIGH ZERO-BIAS PLATE CURRENT.

## DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE (G TO P)	6.5	μμf
INPUT: G TO (H+K)	8.0	μμf
OUTPUT: P TO (H+K)	1.8	μμf

RATINGS<sup>A</sup>

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

VERTICAL DEFLECTION AMPLIFIER<sup>B</sup>

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM DC PLATE VOLTAGE	550	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (ABS. MAX.)	2 000	VOLTS
MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE	250	VOLTS
MAXIMUM PLATE DISSIPATION <sup>C</sup>	12.0	WATTS
MAXIMUM AVERAGE CATHODE CURRENT	100	MA.
MAXIMUM PEAK CATHODE CURRENT	350	MA.
MAXIMUM GRID CIRCUIT RESISTANCE		
SELF BIAS	2.2	MEG OHMS
MAXIMUM HEATER-CATHODE VOLTAGE		
HEATER NEGATIVE WITH RESPECT TO CATHODE		
TOTAL DC AND PEAK	200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE		
DC	100	VOLTS
TOTAL DC AND PEAK	200	VOLTS

CONTINUED ON FOLLOWING PAGE

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	1.25	AMP.
PLATE VOLTAGE	250	VOLTS
GRID #1 VOLTAGE	-28 ←	VOLTS
PLATE CURRENT	40 ←	MA.
TRANSCONDUCTANCE	5 500 ←	μMHOS
AMPLIFICATION FACTOR	6.6 ←	
PLATE RESISTANCE (APPROX.)	1 200 ←	OHMS
GRID VOLTAGE FOR $I_b = 0.5$ MA.	-50	VOLTS
PLATE CURRENT AT $E_c = -38$ Vdc.	10	MA.
ZERO BIAS PLATE CURRENT: $E_b = 100$ V; $E_c = 0$ (INSTANTANEOUS VALUES)	125	MA.

<sup>A</sup> DESIGN-MAXIMUM RATINGS ARE THE LIMITING VALUES EXPRESSED WITH RESPECT TO BOGIE TUBES AT WHICH SATISFACTORY TUBE LIFE CAN BE EXPECTED TO OCCUR. TO OBTAIN SATISFACTORY CIRCUIT PERFORMANCE, THEREFORE, THE EQUIPMENT DESIGNER MUST ESTABLISH THE CIRCUIT DESIGN SO THAT NO DESIGN-MAXIMUM VALUE IS EXCEEDED WITH A BOGIE TUBE UNDER THE WORST PROBABLE OPERATING CONDITIONS WITH RESPECT TO SUPPLY-VOLTAGE VARIATION, EQUIPMENT COMPONENT VARIATION, EQUIPMENT CONTROL ADJUSTMENT, LOAD VARIATION, AND ENVIRONMENTAL CONDITIONS.

<sup>B</sup> FOR 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.

<sup>C</sup> IN 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.

→ INDICATES A CHANGE.