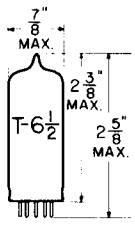


**TUNG-SOL**

**TRIODE**

MINIATURE TYPE



**GLASS BULB**

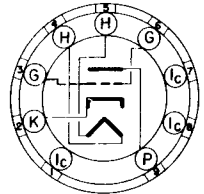
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.6 AMP.

AC OR DC

ANY MOUNTING POSITION



**BOTTOM VIEW**  
MINIATURE BUTTON  
9 PIN BASE  
9AC

THE 6S4 IS A HIGH PERVEANCE TRIODE USING THE SMALL BUTTON 9 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A VERTICAL DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS.

**RATINGS**

INTERPRETED ACCORDING TO RMA STANDARD MB-210  
FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM<sup>A</sup>

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE	200	VOLTS
MAXIMUM DC PLATE VOLTAGE	500	VOLTS
MAXIMUM DC PEAK POSITIVE-PULSE PLATE VOLTAGE <sup>B</sup>	2000	VOLTS
MAXIMUM DC GRID VOLTAGE	-50	VOLTS
MAXIMUM PEAK NEGATIVE-PULSE GRID VOLTAGE	-200	VOLTS
MAXIMUM DC CATHODE CURRENT	30	MA.
MAXIMUM PLATE DISSIPATION	7.5	WATTS
MAXIMUM GRID CIRCUIT RESISTANCE	2.2	MEG OHMS
MINIMUM CATHODE BIAS RESISTANCE <sup>C</sup>	220	OHMS

<sup>A</sup> AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE FOR TELEVISION BROADCAST STATIONS," FEDERAL COMMUNICATIONS COMMISSION.

<sup>B</sup> THE DURATION OF THE VOLTAGE PULSE MUST NOT EXCEED 15 PERCENT OF ONE SCANNING CYCLE. IN A 525-LINE, 30-FRAME SYSTEM, 15 PERCENT OF ONE SCANNING CYCLE IS 2.5 MILLISECOND

<sup>C</sup> INDICATED MINIMUM VALUE OF THIS RESISTOR IS REQUIRED TO PROTECT THE TUBE IN THE EVENT OF TEMPORARY FAILURE OF EXCITATION AND RESULTANT LOSS IN DEVELOPED BIAS.

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→ INDICATES A CHANGE OR ADDITION.

## TUNG-SOL

CONTINUED FROM PRECEDING PAGE

## TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

## VERTICAL DEFLECTION AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
DC PLATE VOLTAGE	450	VOLTS
CATHODE BIAS RESISTOR	820	OHMS
GRID INPUT VOLTAGE (APPROX.):		
PEAK-TO-PEAK SAWTOOTH COMPONENT	60	VOLTS
NEGATIVE PEAKING COMPONENT	48	VOLTS
DC PLATE CURRENT	18	MA.
PLATE OUTPUT VOLTAGE (APPROX.):		
PEAK POSITIVE PULSE COMPONENT	800	VOLTS
PEAK-TO-PEAK SAWTOOTH COMPONENT	350	VOLTS

CLASS A<sub>1</sub> AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.6	AMP.
PLATE VOLTAGE	250	VOLTS
GRID VOLTAGE	-8	VOLTS
PLATE CURRENT	26	MA.
PLATE RESISTANCE (APPROX.):	3600	OHMS
TRANSCONDUCTANCE	4500	μMOS
AMPLIFICATION FACTOR	16	

