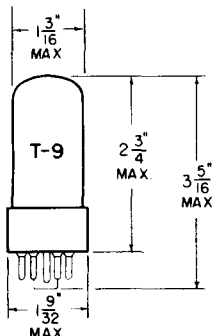


TUNG-SOL**TWIN TRIODE****GLASS BULB**

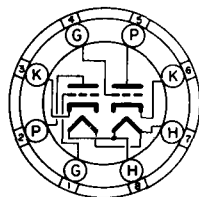
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 1.5 AMP.

AC OR DC

ANY MOUNTING POSITION

**BOTTOM VIEW**SHORT INTERMEDIATE-SHELL
8 PIN OCTAL

880

THE 6BL7GTA COMBINES TWO INDEPENDENT HIGH PERVEANCE LOW-MU TRIODES IN ONE ENVELOPE. IT IS SUITABLE FOR USE AS A COMBINED VERTICAL DEFLECTION SWEEP GENERATOR AND DEFLECTION AMPLIFIER IN TELEVISION RECEIVERS USING PICTURE TUBES WITH WIDE DEFLECTION ANGLES. IT IS INTERCHANGEABLE WITH THE 6BL7GT BUT DIFFERS FROM IT IN HAVING AN IMPROVED SECTION 1 FOR INCREASED LIFE AS AN OSCILLATOR, AND CONTROLLED ZERO-BIAS PLATE CURRENT IN BOTH SECTIONS.

DIRECT INTERELECTRODE CAPACITANCES — APPROX.
WITHOUT EXTERNAL SHIELD

	SEC. #1	SEC. #2	
GRID TO PLATE	6.0	6.0	$\mu\mu\text{f}$
INPUT	4.2	4.6	$\mu\mu\text{f}$
OUTPUT	0.9	0.9	$\mu\mu\text{f}$

RATINGSINTERPRETED ACCORDING TO DESIGN CENTER SYSTEM
EACH SECTION

	VERTICAL ^{AB} OSCILLATOR SERVICE	VERTICAL ^B DEFLECTION AMPLIFIER	
HEATER VOLTAGE	6.3	6.3	VOLTS
MAXIMUM DC PLATE VOLTAGE	500	500	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE	---	2 000 ^C	VOLTS
MAXIMUM PEAK NEGATIVE GRID-VOLTAGE	400	250	VOLTS
MAXIMUM PLATE DISSIPATION (EACH PLATE)	10	10 ^D	WATTS
MAXIMUM TOTAL PLATE DISSIPATION (BOTH PLATES)	12	12	WATTS
MAXIMUM DC CATHODE CURRENT	60	60	MA.
MAXIMUM PEAK CATHODE CURRENT	210	210	MA.
MAXIMUM HEATER-CATHODE VOLTAGE			
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC COMPONENT	100	100	VOLTS
TOTAL DC AND PEAK	200	200	VOLTS
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK	200	200	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS
EACH SECTION

HEATER VOLTAGE	6.3	6.3	6.3	VOLTS
HEATER CURRENT	1.5	1.5	1.5	AMP.
PLATE VOLTAGE	150	250	250	VOLTS
GRID VOLTAGE	0	-17	-9.0	VOLTS
AMPLIFICATION FACTOR	---	---	15	
PLATE RESISTANCE (APPROX.)	---	---	2 150	OHMS
TRANSCONDUCTANCE	---	---	7 000	μMHOS
PLATE CURRENT	65	4.0	40	MA.
GRID VOLTAGE (APPROX.)				
$I_b = 50 \mu\text{AMPS.}$	---	---	-23	VOLTS

^A SECTION 1 IS RECOMMENDED FOR VERTICAL OSCILLATOR SERVICE.

^B 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.

^C ABSOLUTE-MAXIMUM VALUE.

^D 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.

