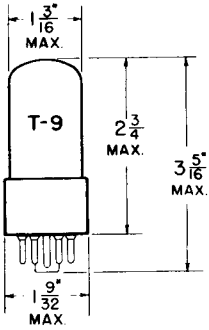
TUNG-SOL

DOUBLE TRIODE

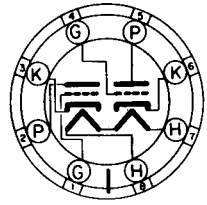


GLASS BULB

COATED UNIPOTENTIAL CATHODES

HEATER
6.3 VOLTS 1.5 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM-VIEW
SHORT INTERMEDIATE SHELL 8 PIN OCTAL
8B0

THE 6BX7GT IS A HIGH PERVEANCE DOUBLE TRIODE DESIGNED FOR USE AS A VERTICAL DEFLECTION AMPLIFIER AND OSCILLATOR IN TELEVISION RECEIVERS.

DIRECT INTERELECTRODE CAPACITANCES – APPROX.

	WITHOUT SHIELD	WITH SHIELD[A]	
SECTION I			
GRID TO PLATE: (G TO P)	4.2	4.2	μμf
INPUT: G TO (H+K)	4.4	5	μμf
OUTPUT: P TO (H+K)	1.1	3.4	μμf
SECTION II			
GRID TO PLATE: (G TO P)	4	4	μμf
INPUT: G TO (H+K)	4.8	5	μμf
OUTPUT: P TO (H+K)	1.2	3.2	μμf
GRID TO GRID: (G TO G)	0.11	0.1	μμf
PLATE TO PLATE: (P TO P)	1.5	1.2	μμf

[A] EXTERNAL SHIELD #308 CONNECTED TO CATHODE OF SECTION UNDER TEST.

CONTINUED ON FOLLOWING PAGE

→ INDICATES A CHANGE OR ADDITION.

CONTINUED FROM PRECEDING PAGE

RATINGS ←

INTERPRETED ACCORDING TO DESIGN CENTER SYSTEM

VERTICAL DEFLECTION AMPLIFIER AND OSCILLATOR[BC]

	OSCILLATOR		AMPLIFIER	
HEATER VOLTAGE		6.3		VOLTS
MAXIMUM HEATER–CATHODE VOLTAGE:				
HEATER NEGATIVE WITH RESPECT TO CATHODE:				
DC		200		VOLTS
TOTAL DC AND PEAK		200		VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE:				
DC		100		VOLTS
TOTAL DC AND PEAK		200		VOLTS
MAXIMUM DC PLATE VOLTAGE	500		500	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE (ABSOLUTE MAXIMUM)	---		2000	VOLTS
MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE	400		250	VOLTS
MAXIMUM DC POSITIVE GRID VOLTAGE	0		0	VDC
MAXIMUM PLATE DISSIPATION[D]	10		10	WATTS
MAXIMUM TOTAL PLATE DISSIPATION		12		WATTS
MAXIMUM AVERAGE CATHODE CURRENT	60		60	MA.
MAXIMUM PEAK CATHODE CURRENT	180		180	MA.
MAXIMUM GRID CIRCUIT RESISTANCE (SELF BIAS)	2.2		2.2	MEGOHMS

[B] FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE IN TELEVISION BROADCASTING STATIONS, FEDERAL COMMUNICATIONS COMMISSION". THE DURATION OF THE VOLTAGE PULSE IS NOT TO EXCEED 15% OF ONE SCANNING CYCLE.

[C] WHEN ONE SECTION IS OPERATED AS AN OSCILLATOR IT IS RECOMMENDED THAT SECTION #1 (PINS 4, 5 AND 6) BE USED.

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

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

HEATER VOLTAGE		6.3		VOLTS
HEATER CURRENT		1.5		AMP.
PLATE VOLTAGE	100		250	VOLTS
GRID #1 VOLTAGE	0		0	VOLTS
CATHODE RESISTOR	0		390	OHMS
PLATE CURRENT	80		42	MA.
TRANSCONDUCTANCE	---		7600	μMHOS
AMPLIFICATION FACTOR	---		10	
PLATE RESISTANCE (APPROX.)	---		1300	OHMS
GRID VOLTAGE FOR I_b = 50 μA	---		−40	VOLTS

→ INDICATES A CHANGE.