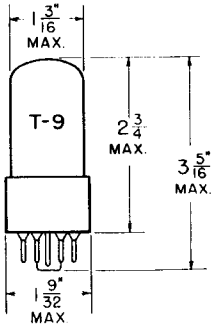
TUNG-SOL

DOUBLE TRIODE

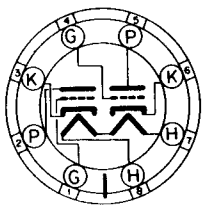


GLASS BULB

COATED UNIPOTENTIAL CATHODE

HEATER
6.3 VOLTS 1.5 AMP.
AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW
SHORT INTERMEDIATE SHELL 8 PIN OCTAL
8BD

THE 6BL7GT 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.

DIRECT INTERELECTRODE CAPACITANCES

	TRIODE UNIT 1	TRIODE UNIT 2	
WITHOUT SHIELD			
GRID TO PLATE: (G TO P)	4.2	4	μμf
INPUT: G TO (H+K)	4.4	4.8	μμf
OUTPUT: P TO (H+K)	1.1	1.2	μμf
GRID TO GRID: (1G TO 2G)	0.022		μμf
PLATE TO PLATE: (1P TO 2P)	1.5		μμf
WITH SHIELD[A]			
GRID TO PLATE: (G TO P)	4.2	4	μμf
INPUT: G TO (H+K)	5	5	μμf
OUTPUT: P TO (H+K)	3.4	3.2	μμf
GRID TO GRID: (1G TO 2G)	0.022		μμf
PLATE TO PLATE: (1P TO 2P)	1.2		μμf

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

RATINGS
INTERPRETED ACCORDING TO RMA STANDARD M8-210

VERTICAL DEFLECTION AMPLIFIER
FOR OPERATION IN A 525-LINE, 30-FRAME SYSTEM[B]

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PEAK HEATER-CATHODE VOLTAGE	200	VOLTS
MAXIMUM DC PLATE VOLTAGE	500	VOLTS
MAXIMUM DC PLATE SUPPLY VOLTAGE	600	VOLTS
MAXIMUM PEAK POSITIVE PULSE PLATE VOLTAGE[C]	2000	VOLTS
MAXIMUM PEAK NEGATIVE PULSE GRID VOLTAGE	-200	VOLTS
MAXIMUM TOTAL PLATE DISSIPATION (EACH SECTION)	10	WATTS
MAXIMUM TOTAL PLATE DISSIPATION (BOTH SECTIONS)	12	WATTS
MAXIMUM DC CATHODE CURRENT (EACH SECTION)	60	MA.
MINIMUM CATHODE BIAS RESISTOR[D]	220	OHMS
MAXIMUM GRID CIRCUIT RESISTANCE	4.7	MEGOHMS

[B] AS DESCRIBED IN "STANDARDS OF GOOD ENGINEERING PRACTICE CONCERNING TELEVISION BROADCAST STATIONS". FEDERAL COMMUNICATIONS COMMISSION.

[C] RATING GIVEN IS TO BE CONSIDERED AN ABSOLUTE MAXIMUM VALUE BEYOND WHICH THE SERVICEABILITY OF THE TUBE MAY BE IMPAIRED. 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 MILLISECONDS

[D] 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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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A_1 AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	1.5	AMP.
DC PLATE VOLTAGE	250	VOLTS
DC GRID VOLTAGE	−9	VOLTS
PLATE CURRENT	40	MA.
AMPLIFICATION FACTOR	14	
TRANSCONDUCTANCE	7 000	µMHOS
PLATE RESISTANCE	2 000	OHMS
GRID VOLTAGE FOR 10 µA. PLATE CURRENT	−28	VOLTS
GRID VOLTAGE FOR 10 µA. PLATE CURRENT WITH 600 VOLTS PLATE VOLTAGE	−75	VOLTS

VERTICAL DEFLECTION AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	1.5	AMP.
PLATE VOLTAGE	450	VOLTS
CATHODE BIAS RESISTOR	1 200	OHMS
GRID INPUT VOLTAGE (APPROX.)		
PEAK TO PEAK SAWTOOTH COMPONENT	36	VOLTS
NEGATIVE PEAKING COMPONENT	44	VOLTS
DC PLATE CURRENT	11	MA.
PLATE OUTPUT VOLTAGE (APPROX.):		
PEAK TO PEAK SAWTOOTH COMPONENT	270	VOLTS
PEAK POSITIVE PULSE COMPONENT	600	VOLTS

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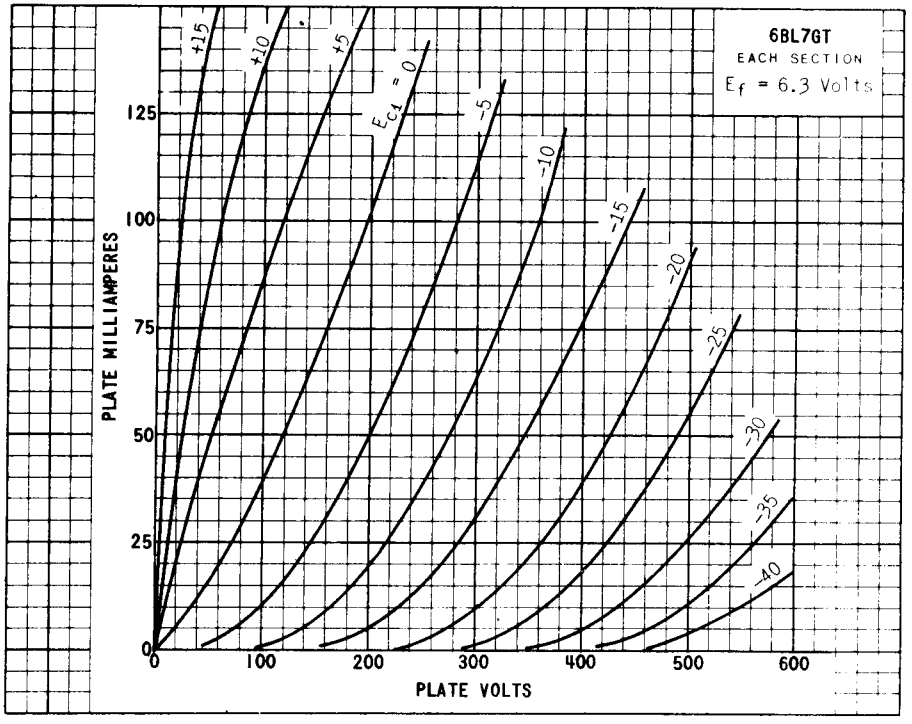

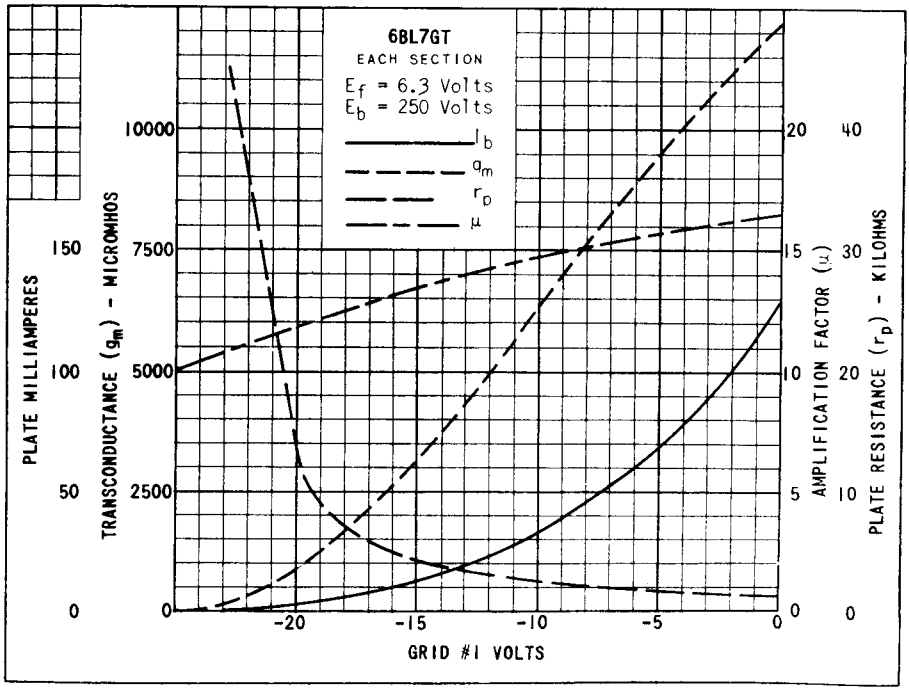

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