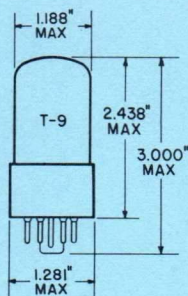


TUNG-SOL

TWIN TRIODE

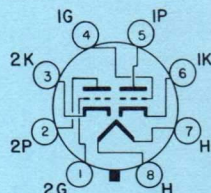


GLASS BULB
INTERMEDIATE SHELL
8 PIN OCTAL B8-6
LOW LOSS PHENOLIC
OUTLINE DRAWING
JEDEC 9-5

TWIN
HIGH MU TRIODES

COATED UNIPOTENTIAL CATHODE

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 8BD

THE 6SL7WGT CONTAINS TWO INDEPENDENT HIGH MU TRIODES IN A T-9 ENVELOPE. IT IS DESIGNED PRIMARILY FOR USE AS RESISTANCE COUPLED AMPLIFIERS. THE TUBE IS INTENDED FOR APPLICATIONS WHERE SEVERE CONDITIONS OF VIBRATION AND MECHANICAL SHOCK ARE ENCOUNTERED.

HEATER CHARACTERISTICS AND RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3	VOLTS	300	MA.
LIMITS OF APPLIED VOLTAGE			6.3±0.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE			±100	VOLTS

MAXIMUM RATINGS

ABSOLUTE MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE, DC	275	VOLTS
PLATE DISSIPATION, EACH SECTION	1.1	WATTS

ADDITIONAL TESTS AND RATINGS ^A

IMPACT ACCELERATION TEST		
VIBRATIONAL ACCELERATION TEST		
ALTITUDE RATING	10,000	FEET

^A LIMITATIONS BEYOND WHICH NORMAL TUBE PERFORMANCE AND TUBE LIFE MAY BE IMPAIRED.

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TYPICAL OPERATING CHARACTERISTICS

EACH SECTION

CONDITIONS:

PLATE VOLTAGE, DC	250	VOLTS
GRID VOLTAGE, DC	-2	VOLTS
PLATE CURRENT	2.3	MA.
AMPLIFICATION FACTOR	70	
TRANSCONDUCTANCE	1,600	μ MHOS
PLATE RESISTANCE	44,000	OHMS
GRID VOLTAGE FOR 10 μ A PLATE CURRENT	-6.0	VOLTS
NOISE OUTPUT VOLTAGE ^D	MAX. 200	MV.

^D ACROSS PLATE RESISTOR OF 2,000 OHMS, WITH APPLIED VIBRATIONAL ACCELERATION OF 2.5 g. SECTIONS TIED IN PARALLEL.

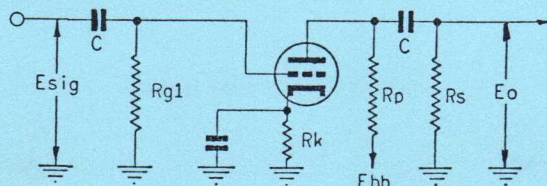
CLASS A RESISTANCE-COUPLED AMPLIFIER

EACH SECTION

Rp Meg.	Rs Meg.	Rg1 Meg.	Ebb = 90 Volts			Ebb = 180 Volts			Ebb = 300 Volts		
			Rk	Gain	Eo	Rk	Gain	Eo	Rk	Gain	Eo
0.10	0.10	0.10	1500	26	6.6	1200	30	19	1100	32	35
0.10	0.24	0.10	1700	31	9.5	1400	36	26	1300	37	47
0.24	0.24	0.10	3200	35	7.6	2200	40	24	2100	42	44
0.24	0.51	0.10	3800	39	10	2700	44	30	2500	46	54
0.51	0.51	0.10	7100	39	7.9	4400	45	23	3800	48	45
0.51	1.0	0.10	8000	41	9.9	5200	47	29	4700	50	53
0.24	0.24	10	0	34	6.0	0	42	21	0	45	42
0.24	0.51	10	0	38	8.3	0	46	28	0	48	52
0.51	0.51	10	0	38	6.8	0	47	22	0	50	43
0.51	1.0	10	0	41	8.7	0	50	27	0	53	52

NOTES:

1. Eo MAXIMUM RMS VOLTAGE OUTPUT FOR FIVE PERCENT (5%) HARMONIC DISTORTION.
2. GAIN MEASURED AT 2.0 VOLTS RMS OUTPUT.
3. FOR ZERO-BIAS DATA, GENERATOR IMPEDANCE IS NEGLIGIBLE.



Note: Coupling capacitors (C) should be selected to give desired frequency response. Rk should be adequately by-passed.

