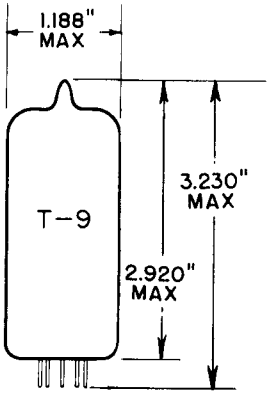
TUNG-SOL

BEAM PENTODE



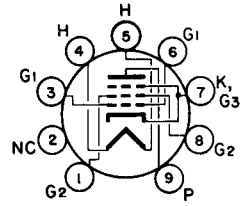
GLASS BULB

BASE E9-68
OUTLINE DRAWING
JEDEC 9-71

COATED UNIPOTENTIAL CATHODE

AUDIO POWER AMPLIFIER

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 9EU

THE 6GC5 IS A BEAM-POWER PENTODE UTILIZING A T-9 ENVELOPE BASED TO FIT A STANDARD 9-PIN MINIATURE SOCKET. IT FEATURES HIGH POWER SENSITIVITY AS AN AUDIO AMPLIFIER. IN CLASS A1 OPERATION, THE 6GC5 CAN DELIVER 2.1 WATTS OF POWER WITH A B+ VOLTAGE OF ONLY 110 VOLTS.

DIRECT INTERELECTRODE CAPACITANCES - APPROX.

GRID #1 TO PLATE	0.9	pf
INPUT: G1 TO (H+K, G3 +G2)	18	pf
OUTPUT: P TO (H+K, G3 +G2)	7	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	1.2	MA.
HEATER SUPPLY LIMITS:			
VOLTAGE OPERATION		6.3±0.6	VOLTS
MAXIMUM HEATER-CATHODE VOLTAGE:			
HEATER NEGATIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		200	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
DC		100	VOLTS
TOTAL DC AND PEAK		200	VOLTS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	220	VOLTS
GRID #2 VOLTAGE	140	VOLTS
PLATE DISSIPATION	12	WATTS
GRID #2 DISSIPATION	1.4	WATTS
GRID #1 CIRCUIT RESISTANCE:		
FIXED BIAS	0.1	MEGOHM
CATHODE BIAS	0.5	MEGOHM

TYPICAL OPERATING CHARACTERISTICS

CLASS A_1 AMPLIFIER

(SINGLE TUBE)

PLATE VOLTAGE	110	200	VOLTS
GRID #2 VOLTAGE	110	125	VOLTS
GRID #1 VOLTAGE	-7.5	---	VOLTS
CATHODE RESISTOR	---	180	OHMS
PEAK AF GRID #1 VOLTAGE	7.5	8.5	VOLTS
ZERO SIGNAL PLATE CURRENT	49	46	MA.
MAX. SIGNAL PLATE CURRENT	50	47	MA.
ZERO SIGNAL GRID #2 CURRENT	4	2.2	MA.
MAX. SIGNAL GRID #2 CURRENT	10	8.5	MA.
TRANSCONDUCTANCE	8000	8000	μMHOS
PLATE RESISTANCE, APPROX.	13,000	28,000	OHMS
LOAD RESISTANCE	2000	4000	OHMS
MAX. SIGNAL POWER OUTPUT	2.1	3.8	WATTS
TOTAL HARMONIC DISTORTION, APPROX.	10	10	PERCENT