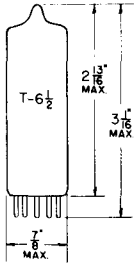
TUNG-SOL

PENTODE

MINIATURE TYPE



GLASS BULB

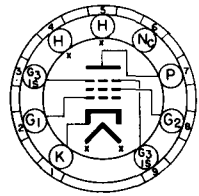
COATED UNIPOTENTIAL CATHODE

HEATER

6.3 VOLTS 0.76 AMP.

AC OR DC

ANY MOUNTING POSITION



BOTTOM VIEW

MINIATURE
9 PIN BASE
9GK

THE 6GK6 IS POWER PENTODE DESIGNED FOR USE EITHER IN AUDIO OUTPUT AMPLIFIER STAGES OR IN VIDEO POWER OUTPUT AMPLIFIER STAGES OF TELEVISION RECEIVERS. THE TUBE FEATURES AN EXTRA RESERVE OF SCREEN DISSIPATION RATING AND A NEW BASING ARRANGEMENT THAT GIVES A LOWER GRID TO PLATE CAPACITY FOR THE SAME HIGH TRANSCONDUCTANCE OF PROTOTYPE TUBES.

DIRECT INTERELECTRODE CAPACITANCES

GRID TO PLATE: G1 TO P (MAX.)	.14	μμf
INPUT: G1 TO ALL	10.0	μμf
OUTPUT: P TO ALL	7.0	μμf

RATINGS

INTERPRETED ACCORDING TO DESIGN MAXIMUM SYSTEM

HEATER VOLTAGE	6.3	VOLTS
MAXIMUM PLATE VOLTAGE	330[A]	VOLTS
MAXIMUM PLATE SUPPLY VOLTAGE	605	VOLTS
MAXIMUM GRID #2 VOLTAGE	330	VOLTS
MAXIMUM GRID #2 SUPPLY VOLTAGE	605	VOLTS
MAXIMUM NEGATIVE GRID #1 VOLTAGE	100	VOLTS
MAXIMUM PLATE DISSIPATION	13.2[A]	WATTS
MAXIMUM GRID #2 DISSIPATION (AVERAGE)	2	WATTS
MAXIMUM GRID #2 DISSIPATION, PEAK	4	WATTS
MAXIMUM CATHODE CURRENT (AVERAGE)	65	MA.
MAXIMUM GRID #1 VOLTAGE FOR GRID CURRENT STARTING POINT WITH Ic1 = 0.3 μA.	−1.3	VOLTS
MAXIMUM GRID CIRCUIT RESISTANCE:		
FIXED BIAS	0.3	MEG.
SELF BIAS	1.0	MEG.
MAXIMUM PEAK HEATER-CATHODE VOLTAGE:		
HEATER NEGATIVE TO CATHODE	100	VOLTS
HEATER POSITIVE TO CATHODE	100	VOLTS

CONTINUED ON FOLLOWING PAGE

PRINTED IN U.S.A.

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CONDITIONS AND CHARACTERISTICS

CLASS A AMPLIFIER

HEATER VOLTAGE	6.3	VOLTS
HEATER CURRENT	0.76	AMP.
PLATE VOLTAGE	250	VOLTS
GRID #2 (SCREEN) VOLTAGE	250	VOLTS
GRID 1 (CONTROL-GRID) VOLTAGE	-7.3	VOLTS
CATHODE BIAS RESISTOR	135	OHMS
PLATE RESISTANCE (APPROX.)	38000	OHMS
TRANSCONDUCTANCE	11300	μMHOS
PLATE CURRENT ZERO SIGNAL	48	MA.
GRID #2 CURRENT, ZERO SIGNAL	5.5	MA.
LOAD RESISTANCE	5200	OHMS
TOTAL HARMONIC DISTORTION (APPROX.)	10	PERCENT
POWER OUTPUT, MAXIMUM SIGNAL	5.7	WATTS
AMPLIFICATION FACTOR OF GRID #2 WITH RESPECT TO GRID #1 ZERO SIGNAL	19	

PUSH PULL AMPLIFIER - VALUE FOR TWO TUBES

	CLASS AB		CLASS B		
PLATE VOLTAGE	250	300	250	300	VOLTS
GRID #2 (SCREEN) VOLTAGE	250	300	250	300	VOLTS
GRID #1 (CONTROL-GRID) VOLTAGE	---	---	-11.6	-14.7	VOLTS
CATHODE BIAS RESISTOR	130	130	---	---	OHMS
GRID TO GRID INPUT VOLTAGE PEAK A-F	22.4	28	22.4	28	VOLTS
PLATE CURRENT, ZERO SIGNAL	62	72	20	15	MA.
PLATE CURRENT, MAXIMUM SIGNAL	75	92	75	92	MA.
GRID #2 CURRENT, ZERO SIGNAL	7	8	2.2	1.6	MA.
GRID #2 CURRENT, MAXIMUM SIGNAL	15	22	15	22	MA.
LOAD RESISTANCE, PLATE-TO-PLATE	8000	8000	8000	8000	OHMS
TOTAL HARMONIC DISTORTION (APPROX.)	3	4	3	4	PERCENT
POWER OUTPUT, MAXIMUM SIGNAL	11	17	11	17	WATTS

A. WHEN THE HEATER AND POSITIVE VOLTAGE ARE OBTAINED FROM A STORAGE BATTERY BY MEANS OF A VIBRATOR, THE MAXIMUM VALUES OF THE PLATE AND GRID 2 VOLTAGES ARE 275 VOLTS AND THE PLATE DISSIPATION IS 9.9 WATTS.