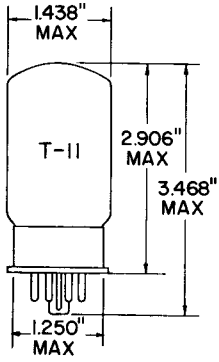
TUNG-SOL

BEAM POWER PENTODE



GLASS BULB
METAL SHELL
SMALL WAFER OCTAL
6 PIN BASE B6-23

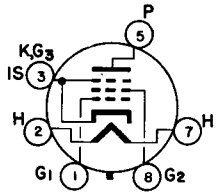
COATED UNIPOTENTIAL CATHODE

HEATER

26.5±2.7 VOLTS 0.28[A] AMP.

[A] AT 26.5 V.

ANY MOUNTING POSITION



BOTTOM VIEW [B]

BASING DIAGRAM
JEDEC 6CK

THE 6000 IS A SINGLE ENDED BEAM POWER PENTODE AMPLIFIER FOR RADIO FREQUENCY APPLICATIONS TO 100 MEGACYCLES. ITS 26.5 VOLT HEATER MAKES IT SUITABLE FOR VEHICULAR OR AIRCRAFT USE. THE RUGGED BUTTON-STEM CONSTRUCTION FEATURES SHORT INTERNAL LEADS AND A LOW-LOSS 6 PIN OCTAL BASE.

DIRECT INTERELECTRODE CAPACITANCES
WITHOUT EXTERNAL SHIELD

GRID TO PLATE: G1 TO P (MAX.)	0.18	pf
INPUT: G1 TO (H+K+G2+BASE SHELL)	15.0	pf
OUTPUT: P TO (H+K+G2+BASE SHELL)	7.0	pf

RATINGS[C]
INTERPRETED ACCORDING TO ABSOLUTE MAXIMUM SYSTEM

CLASS C AMPLIFIER OR OSCILLATOR

HEATER VOLTAGE	26.5±2.7	VOLTS
DC PLATE VOLTAGE	600	VOLTS
DC #2 GRID VOLTAGE	300	VOLTS
DC #1 GRID VOLTAGE-NEGATIVE	-200	VOLTS
DC PLATE CURRENT	125	MA.
DC GRID CURRENT	7	MA.
PLATE INPUT	60	WATTS
PLATE DISSIPATION	25	WATTS
GRID #2 DISSIPATION	4.0	WATTS
HEATER-CATHODE VOLTAGE, POSITIVE OR NEGATIVE	100	VOLTS

[B] AT THE HIGHER FREQUENCIES IT MAY BE DESIRABLE TO GROUND THE METAL BASE SHELL THROUGH A CLAMPING DEVICE.

[C] TO 100 MC.

CONTINUED ON FOLLOWING PAGE

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TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATION

70 MC

PLATE VOLTAGE	400	600	VOLTS
GRID #2 VOLTAGE	200	225	VOLTS
GRID #1 VOLTAGE—DEVELOPED	-60	-60	VOLTS
GRID #1 RESISTOR	12,000	20,000	OHMS
PEAK RF GRID VOLTAGE	75	75	VOLTS
DC PLATE CURRENT	125	100	MA.
DC GRID #2 CURRENT	16	18	MA.
DC GRID #1 CURRENT	5.0	3.0	MA.
DRIVING POWER—MAX.	0.40	0.23	WATTS
POWER OUTPUT	28	35	WATTS

AVERAGE CHARACTERISTICS

TRANSCONDUCTANCE—FOR PLATE CURRENT OF 70 MA.	8000	μMHOS
AMPLIFICATION FACTOR, GRID #2 TO GRID #1	8