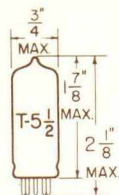


TUNG-SOL

TRIODE

MINIATURE TYPE

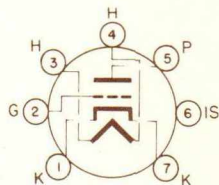


GLASS BULB
MINIATURE BUTTON
7 PIN BASE E7-1
OUTLINE DRAWING
JEDEC 5-2

COATED UNIPOTENTIAL CATHODE

LOW INPUT CAPACITANCE
HIGHER INPUT IMPEDANCE
DUAL CATHODE LEADS
PARTIAL SHIELD BETWEEN
THE GRID AND PLATE

ANY MOUNTING POSITION



BOTTOM VIEW
BASING DIAGRAM
JEDEC 7FP

THE 6GK5 IS A FRAME GRID GAIN CONTROLLED SHIELDED TRIODE IN THE SEVEN PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A VHF RF AMPLIFIER AT A B+ OF 135 VOLTS.

DIRECT INTERELECTRODE CAPACITANCES

WITH EXTERNAL SHIELD

GRID TO PLATE	0.52	pf
INPUT: G TO (H+K+I.S.+E.S.)	5.0	pf
OUTPUT: P TO (H+K+I.S.+E.S.)	3.5	pf
HEATER TO CATHODE	2.5	pf

HEATER CHARACTERISTICS AND RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

AVERAGE CHARACTERISTICS	6.3 VOLTS	180	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		100	VOLTS
HEATER POSITIVE WITH RESPECT TO CATHODE			
TOTAL DC AND PEAK		100	VOLTS

MAXIMUM RATINGS

DESIGN MAXIMUM VALUES - SEE EIA STANDARD RS-239

PLATE VOLTAGE	200	VOLTS
PLATE DISSIPATION	2.5	WATTS
DC CATHODE CURRENT	22	MA.
NEGATIVE GRID VOLTAGE	50	VOLTS
GRID CIRCUIT RESISTANCE (SELF BIAS)	1.0	MEGOHMS

CONTINUED ON FOLLOWING PAGE

TUNG-SOL

CONTINUED FROM PRECEDING PAGE

TYPICAL OPERATING CHARACTERISTICS

CLASS A₁ AMPLIFIER

PLATE VOLTAGE	135	VOLTS
GRID VOLTAGE	-1.0	VOLTS
PLATE CURRENT	11.5	MA.
TRANSCONDUCTANCE	15 000	μ MHOS
AMPLIFICATION FACTOR	78	
PLATE RESISTANCE (APPROX.)	5400	OHMS
EC FOR $G_m = 150 \mu$ MHOS (APPROX.)	-4.2	VOLTS
EC FOR $G_m = 1500 \mu$ MHOS (APPROX.)	-2.5	VOLTS
HOT INPUT RESISTANCE (200 Mc) ^C	275	OHMS
HOT INPUT CAPACITANCE (200 Mc) ^C	11.2	pf
NOISE FIGURE (200 Mc) ^D	4.7	db

^CMEASURED UNDER GROUNDED PLATE CONDITIONS.^DOPTIMIZED NEUTRALIZED TRIODE RF AMPLIFIER STAGE, NOISE MATCHED.