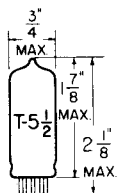


## TUNG-SOL

## TRIODE

## MINIATURE TYPE

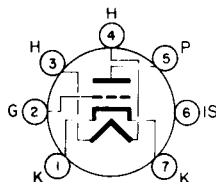


GLASS BULB  
MINIATURE BUTTON  
7 PIN BASE E7-1  
OUTLINE DRAWING  
JEDEC 5-2

## 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	MEG OHMS

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## TYPICAL OPERATING CHARACTERISTICS

CLASS A<sub>1</sub> AMPLIFIER

PLATE VOLTAGE	135	VOLTS
GRID VOLTAGE	-1.0	VOLTS
PLATE CURRENT	11.5	MA.
TRANSCONDUCTANCE	15 000	μMHOS
AMPLIFICATION FACTOR	78	
PLATE RESISTANCE (APPROX.)	5400	OHMS
E <sub>c</sub> FOR G <sub>m</sub> = 150 μMHOS (APPROX.)	-4.2	VOLTS
E <sub>c</sub> FOR G <sub>m</sub> = 4500 μMHOS (APPROX.)	-2.5	VOLTS
HOT INPUT RESISTANCE (200 Mc) <sup>C</sup>	275	OHMS
HOT INPUT CAPACITANCE (200 Mc) <sup>C</sup>	11.2	pf
NOISE FIGURE (200 Mc) <sup>D</sup>	4.7	db

<sup>C</sup>MEASURED UNDER GROUNDED PLATE CONDITIONS.<sup>D</sup>OPTIMIZED NEUTRALIZED TRIODE RF AMPLIFIER STAGE, NOISE MATCHED.