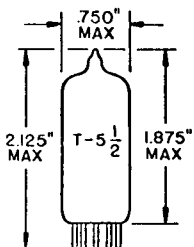
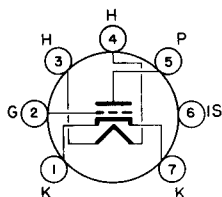


TUNG-SOL**TRIODE****MINIATURE TYPE**

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

SHIELDED TRIODE
FOR
NEUTRODE CIRCUIT
APPLICATIONS



BOTTOM VIEW
JEDEC 7 FP

THE 3GK5 IS A FRAME GRID GAIN CONTROLLED SHIELDED TRIODE IN THE 7 PIN MINIATURE CONSTRUCTION. IT IS DESIGNED FOR USE AS A VHF RF AMPLIFIER AT A B+ OF 135 VOLTS.

DIRECT INTERELECTRODE CAPACITANCES**WITH 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	2.8 VOLTS	450	MA.
HEATER WARM-UP TIME		11	SECONDS
LIMITS OF SUPPLIED	600 ± 40		MA.
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

CONTINUED ON FOLLOWING PAGE

TUN0-801

CONTINUED FROM PRECEDING PAGE

MAXIMUM RATINGS

DESIGN MAXIMUM RATINGS - SEE EIA STANDARD RS-239

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

CHARACTERISTICS AND TYPICAL OPERATION

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. 5,400	OHMS
E_c FOR $G_m = 150 \mu$ MHOS	Approx. -4.2	VOLTS
E_c FOR $G_m = 1,500 \mu$ MHOS	Approx. -2.5	VOLTS
HOT INPUT RESISTANCE - 200 Mc/s - GROUNDED PLATE	275	OHMS
HOT INPUT CAPACITANCE - 200 Mc/s - GROUNDED PLATE	11.2	pf
NOISE FIGURE - 200 Mc/s - OPTIMIZED NEUTRALIZED		
TRIODE RF AMPLIFIER STAGE, NOISE MATCHED	4.7	DB