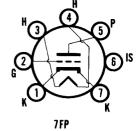


6GK5 SYLVANIA TYPES 3**G**K5 2GK5



VHF HI GM TRIODE

The Sylvania Types 2GK5, 3GK5 and 6GK5 measured under grounded plate conditions yield an Input Resistance of 275 Ohms and an Input Capacitance of 11.2 $\mu\mu$ f at 200 Mc. Noise measurements yield a Noise Figure of 4.7 db at 200 Mc in an optimized triode RF amplifier stage, noise matched.

MECHANICAL DATA

Bulb	T-5½
Base E7-1,	Miniature Button 7-Pin
Outline	5-2
Basing	7FP
Cathode	Coated Unipotential
Mounting Position	Any

ELECTRICAL DATA

HEATER CHARACTERISTIC Average Characteristics Heater Operation Heater Voltage	2GK5 Series 2.3 600 ¹ 11 Values)	RATINGS 3GK5 Series 2.8 450 ¹ 11	180	Volts Ma Seconds
	Min-Max	Min-Max	Min-Max	
Heater Voltage ³ Heater Current ³ Maximum Heater-Cathode Vo Heater Negative with Resp	560-640 oltage	420-480	5.7 - 6.9	Ma Ma
Total D C and Peak Heater Positive with Respe	100	100	100	Volts
Total D C and Peak		100	100	Volts
OIRECT INTERELECTRODE Grid to Plate Input: g to (h+k+1.S.+E. Output: p to (h+k+1.S.+E. Heater to Cathode	.S.)	· · · · · · · · · · · · · · · · · · ·	0.52 5.0 3.5	μμf μμf μμf μμf
RATINGS (Design Maximum Plate Voltage. Plate Dissipation D C Cathode Current Negative Grid Voltage. Grid Circuit Resistance (Self			2.5 22 50	Volts Max. Watts Max. Ma Max. Volts Max. Megohm Max.
CHARACTERISTICS AND T Class A1 Amplifier Plate Voltage. Grid Voltage. Plate Current. Transconductance. Amplification Factor. Plate Resistance (approx.). Ec for Gm = 150 \(\mu\)mhos (approx.) Ec for Gm = 1500 \(\mu\)mhos (approx.) Hot Input Resistance (200 M Hot Input Capacitance (200 I Noise Figure (200 Mc) ⁵ .	prox.)pprox.)		135 -1.0 11.5 15,000 78 5400 -4.2 -2.5 275	μmhos Ohms Volts Volts Ohms μμf

- For series/parallel operation of heaters, equipment should be designed that at normal supply voltage bogey tubes will operate at this value of heater current/voltage.
- Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of the rated heater voltage after applying four (4) times rated heater voltage to a circuit consisting of the tube heater in series with a resistance equal to three (3) times the rated heater voltage divided
- by the rated heater current.

 3. Heater voltage supply variations shall be restricted to maintain heater voltage/current within the specified values.

 4. Measured under grounded plate conditions.

 5. Optimized neutralized triode RF amplifier stage, noise matched.

SYLVANIA TYPES 6GK5 (Cont'd) 3GK5 2GK5

APPLICATION

The Sylvania Types 2GK5, 3GK5 and 6GK5 are frame grid gain controlled triodes designed for use as VHF RF amplifiers at a B+ of 135 volts. Features of the design include: A partial shield between the grid and plate which lowers the capacitance between these two elements and promotes ease of neutralization; low input capacitance; and higher input impedance by virtue of dual cathode leads.