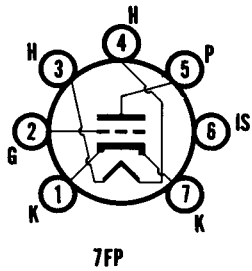
SYLVANIA TYPE 6FY5
3FY5
2FY5



7FP

VHF TRIODE

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 CHARACTERISTICS

	2FY5	3FY5	6FY5	
Heater Voltage	2.4	3.1	6.3	Volts
Heater Current	600	450	200	
Heater Warm-up Time[1]	11	11		Seconds
Heater-Cathode Voltage				
Heater Neg. with Respect to Cathode				
Total D C and Peak	100	100	100	Volts Max.
Heater Pos. with Respect to Cathode				
Total D C and Peak	100	100	100	Volts Max.

DIRECT INTERELECTRODE CAPACITANCES

	Shielded	Unshielded
Grid to Plate	0.48	0.5 μμf Max.
Input	4.75	4.75 μμf
Output	4.3	3.3 μμf
Grid to Heater	0.28	0.28 μμf Max.
Plate to Cathode	0.21	0.25 μμf
Grid to Heater	3.2	3.2 μμf
Cathode to Heater	2.5	2.5 μμf

RATINGS (Absolute Maximum Values)

Plate Voltage	200 Volts Max.
Plate Dissipation	2.2 Watts Max.
Cathode Current	20 Ma Max.
Negative Grid Voltage	50 Volts Max.
Grid Circuit Resistance	1.0 Megohms Max.
Cathode Heater Circuit Resistance	20,000 Ohms Max.

CHARACTERISTICS AND TYPICAL OPERATIONS
Class A1 Amplifier

Plate Voltage	135	135	135	135 Volts
Grid Voltage	-4.5	-5	-3.1	-1.0 Volts
Plate Current	0.1	—	—	11 Ma
Transconductance	—	125	625	13,000 μmhos
Amplification Factor	—	—	—	70

NOTES:

1. Heater warm-up time is defined as the time required for the voltage across the heater to reach 80% of its rated value 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 rated heater voltage divided by rated heater current.

APPLICATION

The Sylvania Types 6FY5, 3FY5, and 2FY5 are remote cutoff triodes designed for use as VHF RF amplifiers. 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.