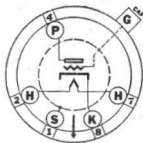


Sylvania
TYPE 6F5
 HIGH-MU
 TRIODE



CHARACTERISTICS

Heater Voltage AC or DC	6.3 Volts
Heater Current	0.3 Ampere

Direct Interelectrode Capacitances:

Grid to Plate	2.0 $\mu\mu\text{f}$
Input	6.0 $\mu\mu\text{f}$
Output	12.0 $\mu\mu\text{f}$
Maximum Over-all Length	3 1/8"
Maximum Diameter	1 1/8"
Cap	Miniature
Base—Small Octal 5-Pin	5-M

Operating Conditions and Characteristics:

CLASS A AMPLIFIER

Heater Voltage	6.3 Volts
Plate Voltage	250 Volts Max.
Grid Voltage*	-2 Volts
Plate Current*	1.1 Ma.
Plate Resistance	66000 Ohms
Mutual Conductance	1500 μmhms
Amplification Factor	100

*These are rating values only and not operating points with coupling resistor.

CIRCUIT APPLICATION

Sylvania 6F5 is a high-mu triode a-f amplifier, quite similar to the triode section of the Type 75 but having improved characteristics. The tabulated ratings and characteristics show a lower plate impedance and a higher mutual conductance than for Type 75. Both tubes have the same amplification factor ($\mu = 100$). The control grid is brought out to the top cap connection to reduce hum.

When a 6F5 is used in conjunction with a Type 6H6, which is the duodiode metal tube, the combination becomes the equivalent of a Type 75. Reference may therefore be made to the information given under Circuit Application notes for the Type 75.