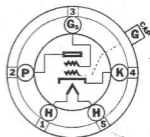


Sylvania

TYPE 36

SCREEN GRID

RF AMPLIFIER



CHARACTERISTICS

Heater Voltage AC or DC	6.3 Volts
Heater Current	0.3 Ampere

Direct Interelectrode Capacitances:

Grid to Plate (with tube shield)	0.007 μf
Input	3.7 μf
Output	9.2 μf
Maximum Over-all Length	4 $\frac{11}{16}$ "
Maximum Diameter	1 $\frac{1}{8}$ "
Bulb	ST-12
Cap	Small Metal
Base—Small 5-Pin	5-E

Operating Conditions and Characteristics:

Heater Voltage	6.3	6.3	6.3	6.3	Volts
Plate Voltage	100	135	180	250	Volts
Grid Voltage	-1.5	-1.5	-3.0	-3.0	Volts
Screen Voltage	55	67.5	90	90	Volts
Plate Current	1.8	2.8	3.1	3.2	Ma.
Screen Current	Not over $\frac{1}{2}$ of plate current				
Plate Resistance	0.55	0.475	0.50	0.55	Megohm
Mutual Conductance	850	1000	1050	1080	μmhos
Amplification Factor	470	475	525	595	

CIRCUIT APPLICATION

Sylvania 36 is a four element tube having a 6.3 volt heater and may be used as a radio frequency amplifier, a detector or an intermediate frequency amplifier, in circuits especially designed for it.

This tube employs an indirectly heated cathode of special design which permits a heater voltage range of from 5.5 to 8.5 volts without appreciably affecting the performance or serviceability of the tube. No resistor in the heater circuit is required for this type operated from a 6 volt battery.

It is necessary to employ adequate shielding and filtering of leads if stable operation of the 36 is to be obtained in radio frequency circuits.

Volume control of the receiver should be accomplished by varying the control grid bias.

The screen grid voltage should not be obtained by means of a series resistor but rather by a fixed tap so that no variation of screen voltage will occur with different tubes.