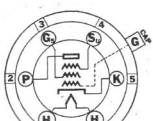

Sylvania

TYPE 57

TRIPLE GRID AMPLIFIER

CHARACTERISTICS

Heater Voltage AC or DC	2.5 Volts
Heater Current	1.0 Ampere

Direct Interelectrode Capacitances:

Grid to Plate (with tube shield)	0.007 $\mu\mu$f Max.
Input	5.0 $\mu\mu$f
Output	6.5 $\mu\mu$f
Maximum Over-all Length	$4\frac{13}{16}$"
Maximum Diameter	$1\frac{9}{16}$"
Bulb	ST-12
Cap	Small Metal
Base—Small 6-Pin	6-F

Operating Conditions and Characteristics:

	AMPLIFIER	
Heater Voltage	2.5	2.5 Volts
Plate Voltage	100	250 Volts Max.
Grid Voltage	−3	−3 Volts
Screen Voltage	100	100 Volts Max.
Suppressor	Tie to Cathode	
Plate Current	2.0	2.0 Ma.
Screen Current	0.5	0.5 Ma.
Plate Resistance, Greater than	1.0	1.5 Megohms
Mutual Conductance	1185	1225 μmhos
Amplification Factor, Greater than	1000	1500

Operating Conditions as Biased Detector:

	DETECTOR	
Heater Voltage	2.5	2.5 Volts
Plate Voltage	100	250 Volts Max.
Grid Voltage	−1.8	−4.3 Volts Approx.
Screen Voltage	30	100 Volts Max.

Plate Load—250,000 ohms or 500 h. choke shunted by 0.25 megohm. For resistance load, plate supply voltage will be voltage at plate plus voltage drop in load caused by specified plate current.

CIRCUIT APPLICATION

Sylvania 57 is an efficient r-f pentode of the sharp cut-off type. It is recommended for use as a detector or detector-oscillator in superheterodyne receivers, also as a control tube and as an audio amplifier with resistance coupling. Short-wave operation has been considered in the design of the tube, and the interelectrode capacities kept low for this service. The 57 is identical in characteristics with Type 6C6 except for heater rating which is 2.5 volts at 1.0 ampere.

The chief use for Type 57 is in a-c household receivers. A more complete discussion on the use of the 57 will be found under **Circuit Application** for Type 6C6.