

Hygrade Sylvania

CORPORATION

TECHNICAL DATA
 SYLVANIA TYPE 6T5

Tuning Indicator

CHARACTERISTICS

Heater Voltage AC or DC	6.3 Volts
Heater Current	0.3 Ampere

OPERATING CONDITIONS AND CHARACTERISTICS

Heater Voltage	6.3 Volts
Plate Supply Voltage	250 Volts
Target Supply Voltage	250 Volts
Plate Current (Triode Unit)*	0.24 Ma. Max.
Target Current	3.0 Ma. Approx.
Grid Voltage (Triode Unit)°	0.0 Volts
Grid Voltage (Triode Unit)°°	-22.0 Volts
Triode Plate Resistor	1.0 Megohm

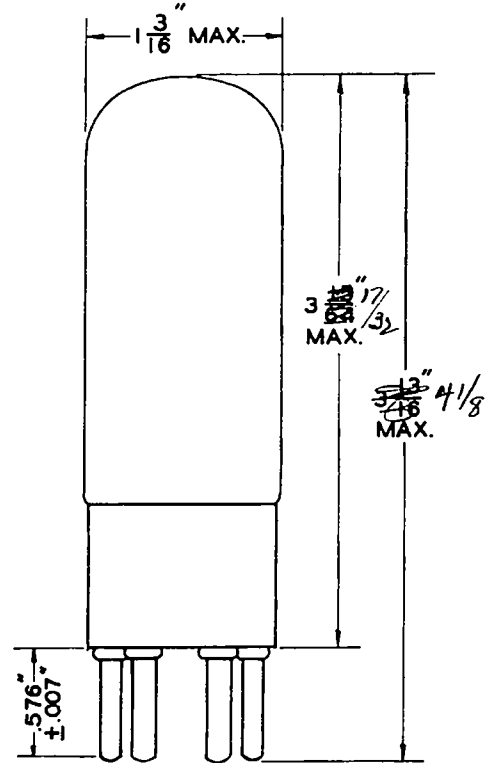
- * With triode grid voltage of zero volts.
- ° For minimum illumination of target.
- °° For maximum illumination of target.

CIRCUIT APPLICATION

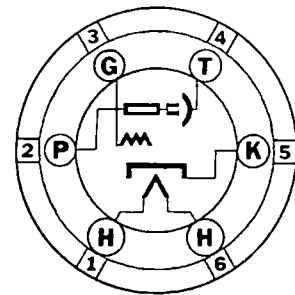
Sylvania Type 6T5 is a new tuning indicator tube which has operating conditions similar to those for the 250 volt rating of Type 6G5. It differs from the 6G5 in that the visible indication is annular in shape. The lighted portion covers only a very narrow region at the periphery of the target when no voltage is applied to the control grid of the tube. When negative voltage is applied to the control grid the width of the fluorescent ring increases until it covers practically all of the target. Changes in annular width, or diameter of the shaded section, are more readily detected than are changes in the shaded angular sector when Type 6G5 is employed.

In actual circuit use the varying negative voltage for controlling the shadow may be obtained from some point in the a-v-c circuit, thus giving an indication of resonance when the unlighted portion of the target is at a minimum.

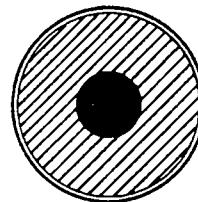
Type 6T5 is mounted in a T-9 bulb on a standard small 6-pin base. The tube is not designed for 100-volt operation.



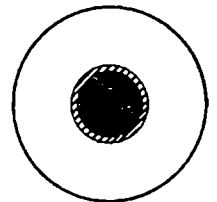
TUBE AND BASE DIAGRAM
 (BOTTOM VIEW)



RMA
 6-R



ZERO GRID BIAS
 (MIN. SIGNAL)



MAX. GRID BIAS
 (MAX. SIGNAL)

SHADOW REPRESENTED BY
 CROSS-HATCHING.