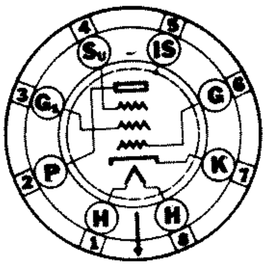
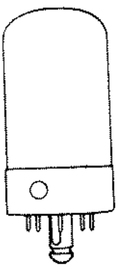



8V-L-5



# Sylvania Type 7A7

**REMOTE CUT-OFF RF PENTODE**

**GT EQUIVALENT 6SK7GT**

## PHYSICAL SPECIFICATIONS

| | |
|---|---|
| Base | Lock-In 8 Pin |
| Bulb | T-9 |
| Maximum Overall Length | $2^{25}/_{32}$" |
| Maximum Seated Height | $2\frac{1}{4}$" |
| Mounting Position | Any |

## RATINGS

| | |
|---|---|
| Heater Voltage (Nominal) AC or DC | 7.0 Volts |
| Heater Current (Nominal) | 0.32 Ampere |
| Maximum Plate Voltage | 300 Volts |
| Maximum Screen Voltage | 125 Volts |
| Maximum Plate Dissipation | 4.0 Watts |
| Maximum Screen Dissipation | 0.4 Watt |
| Minimum External Grid Bias Voltage | 0 Volt |
| Maximum Heater-Cathode Voltage | 90 Volts |

**Direct Interelectrode Capacitances:***

| | |
|---|---|
| Grid to Plate | 0.005 $\mu\mu$f. Max. |
| Input; Grid to (F+K+$G_2$+$G_3$) | 5.5 $\mu\mu$f. |
| Output; Plate to (F+K+$G_2$+$G_3$) | 7.0 $\mu\mu$f. |

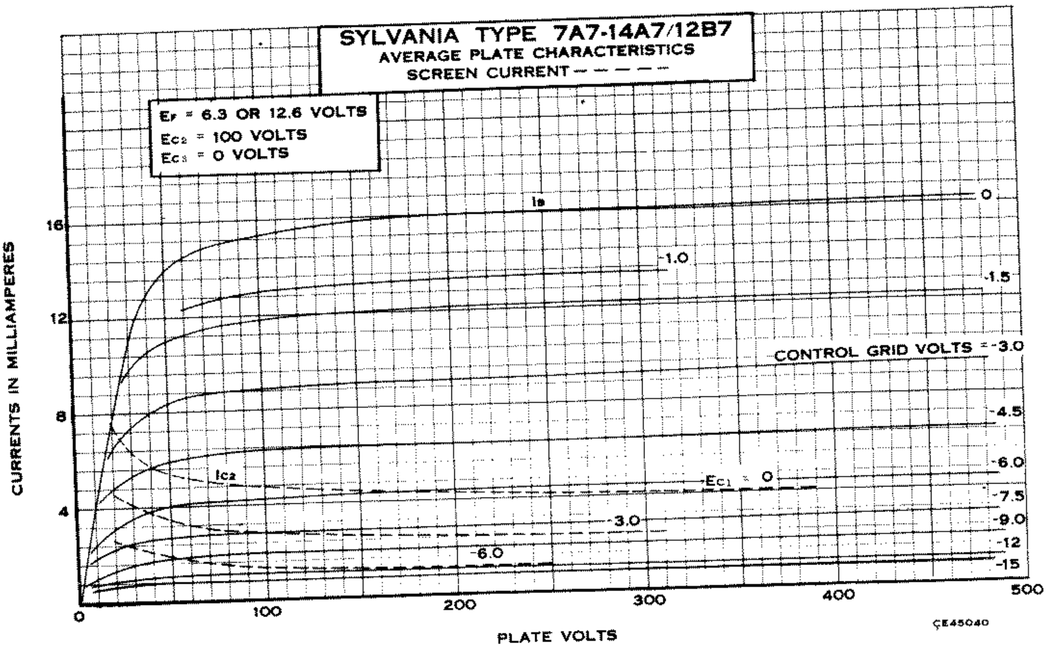
*With $1^5/_{16}$" diameter shield (RMA Std. M8-308) connected to Cathode.

## TYPICAL OPERATION

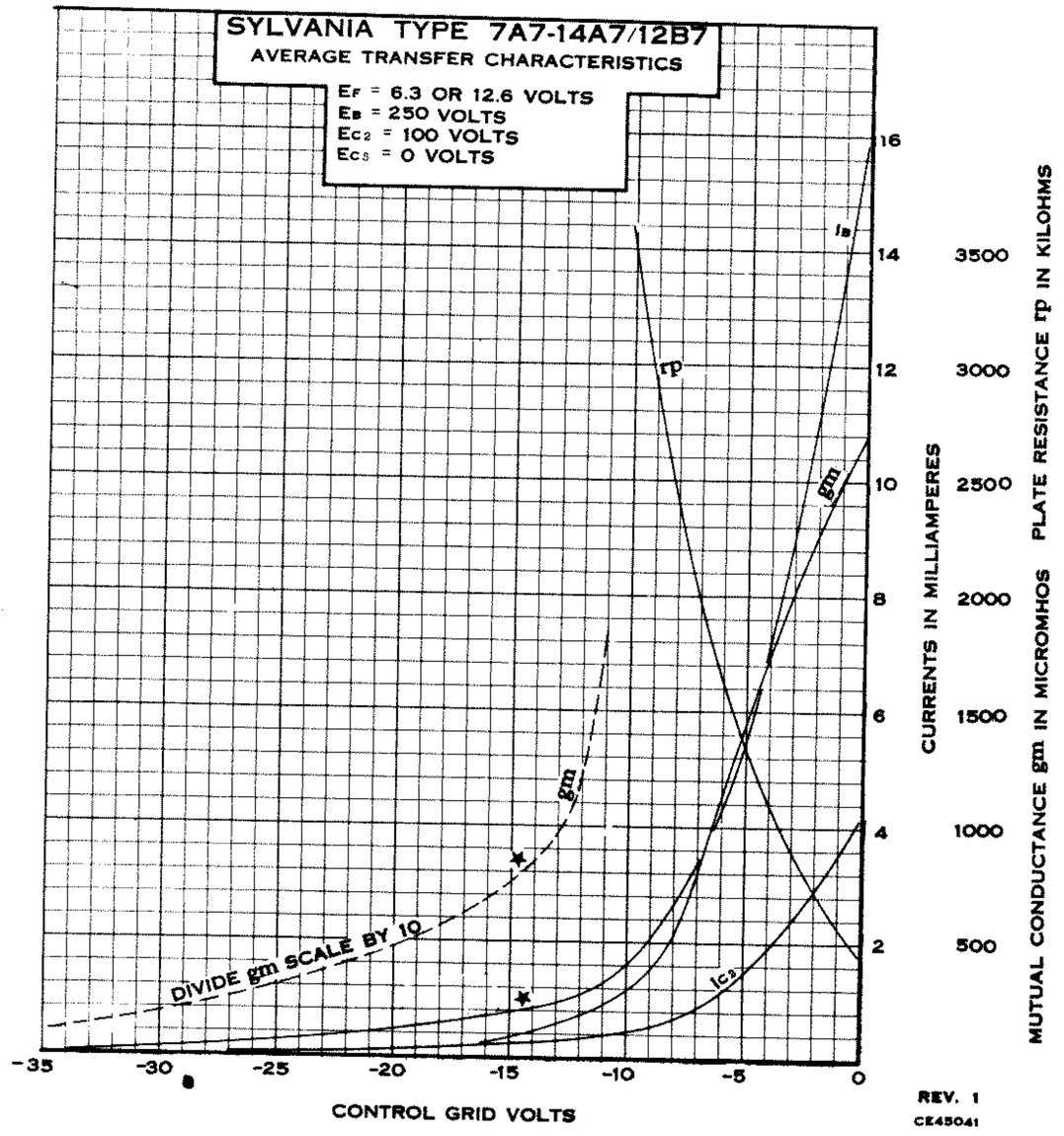
| | | |
|---|---|---|
| Heater Voltage | 6.3 | 6.3 Volts |
| Heater Current | 0.3 | 0.3 Ampere |
| Plate Voltage | 100 | 250 Volts |
| Screen Voltage | 100 | 100 Volts |
| Grid Voltage | −1.0 | −3 Volts |
| Self-Bias Resistor | 60 | 260 Ohms |
| Suppressor | Connect to Cathode | |
| Plate Current | 13.0 | 9.2 Ma. |
| Screen Current | 4.0 | 2.6 Ma. |
| Plate Resistance | 0.12 | 0.8 Megohm |
| Mutual Conductance | 2350 | 2000 $\mu$mhos |
| Grid Voltage for Mutual Conductance of 10 $\mu$mhos | −35 | −35 Volts |

## APPLICATION

Sylvania Type 7A7 is a single-ended remote cut-off pentode designed for RF or IF service in AC or DC receivers. For AC-DC service, Types 14A7 or 7B7 may be more suitable because of lower heater current ratings. Electrical characteristics are similar to the older Types 6K7GT and 6SK7GT. In most applications the internal shield connected to pin No. 5 should provide adequate shielding, although an external shield may be required if extremely high gain circuits are used.



# 7A7 (Cont.)

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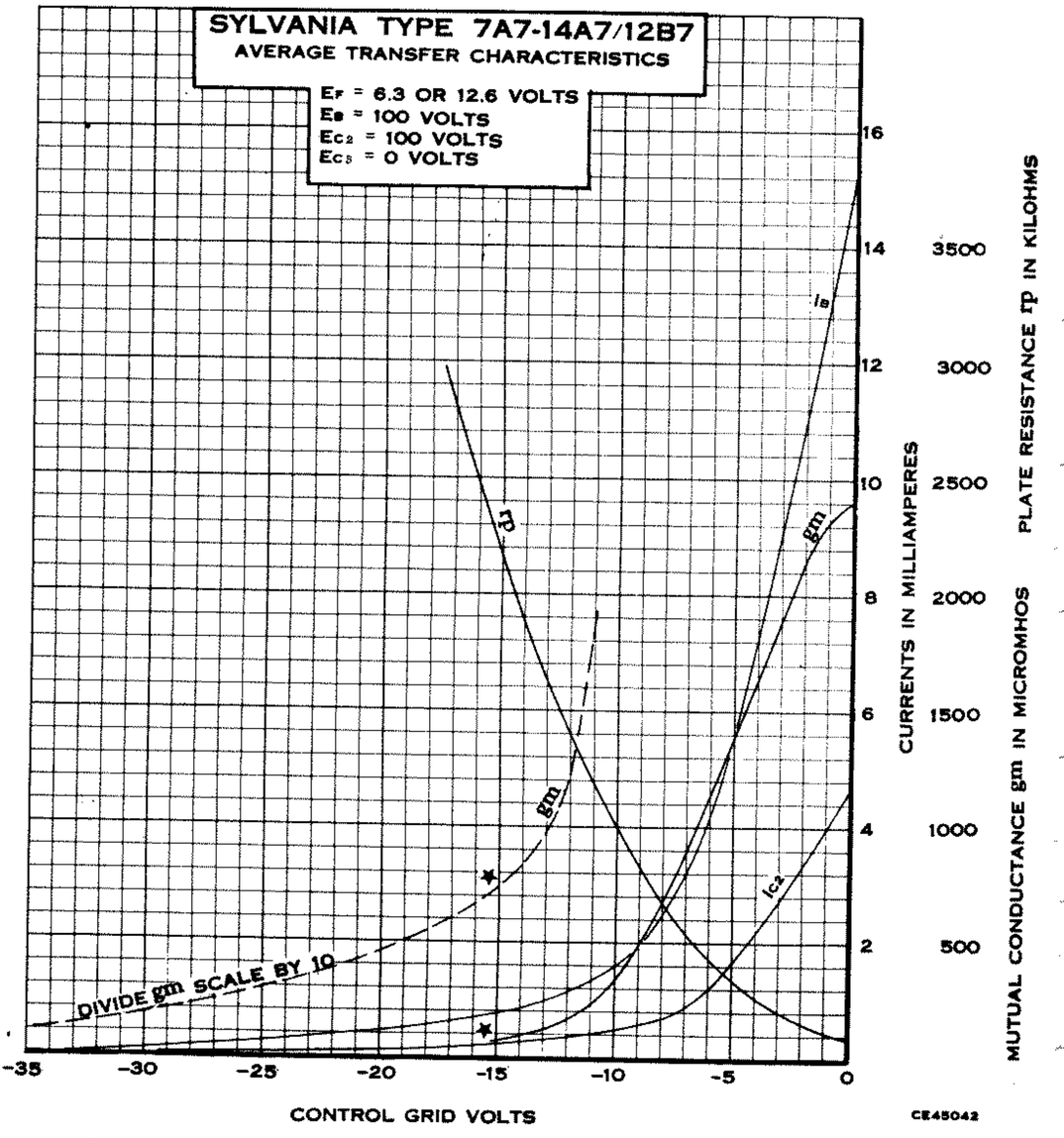


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