

Sylvania

TYPE 1W5

SHARP CUT-OFF RF PENTODE

RATINGS AND CHARACTERISTICS

Filament Voltage DC	1.25	Volts
Maximum Plate Voltage	100	Volts
Maximum Screen Voltage	100	Volts
Direct Interelectrode Capacitances: Unshielded Shielded*		
Grid to Plate	.012	.01 μ f. Max.
Input	2.2	2.3 μ f.
Output	3.4	3.5 μ f.

*With 0.405" diameter shield connected to negative filament. Leads numbering 1, 3 and 6 must be grounded to obtain these values.

OPERATING CONDITIONS & CHARACTERISTICS

Filament Voltage DC	1.25	1.25	Volts
Filament Current	.040	.040	Ampere
Plate Voltage	30	67.5	Volts
Screen Voltage	30	67.5	Volts
Grid Voltage	0	0	Volts
Plate Current	0.42	1.85	Ma.
Screen Current	0.16	0.75	Ma.
Plate Resistance (Approx.)	0.7	0.7	Megohm
Mutual Conductance	430	735	μ hos
Control Grid Voltage for $I_b = 10 \mu$ a. (Approx.)	-2.0	-5.0	Volts

CIRCUIT APPLICATION

Sylvania Type 1W5 is an RF Pentode tube suitable for use in very small radio sets or amplifiers. The other types required for a normal set complement and designed for use with it are Types 1C8 (Converter), 1Q6 (Diode Pentode) and 1V5 (Output Pentode).

This type corresponds in service and circuit design to Type 1LN5 and will operate satisfactorily with standard radio components.

When used on battery supply the filament voltage must never exceed 1.5 volts. For AC-DC power line operation, the design center is 1.2 volts.

The tinned leads permit direct soldering into the circuit to permit great reduction in size of completed equipment, or may be cut off for use in a socket designed for this purpose. The small size and light weight permit use under severe mechanical conditions and in locations where larger tubes could not be considered.

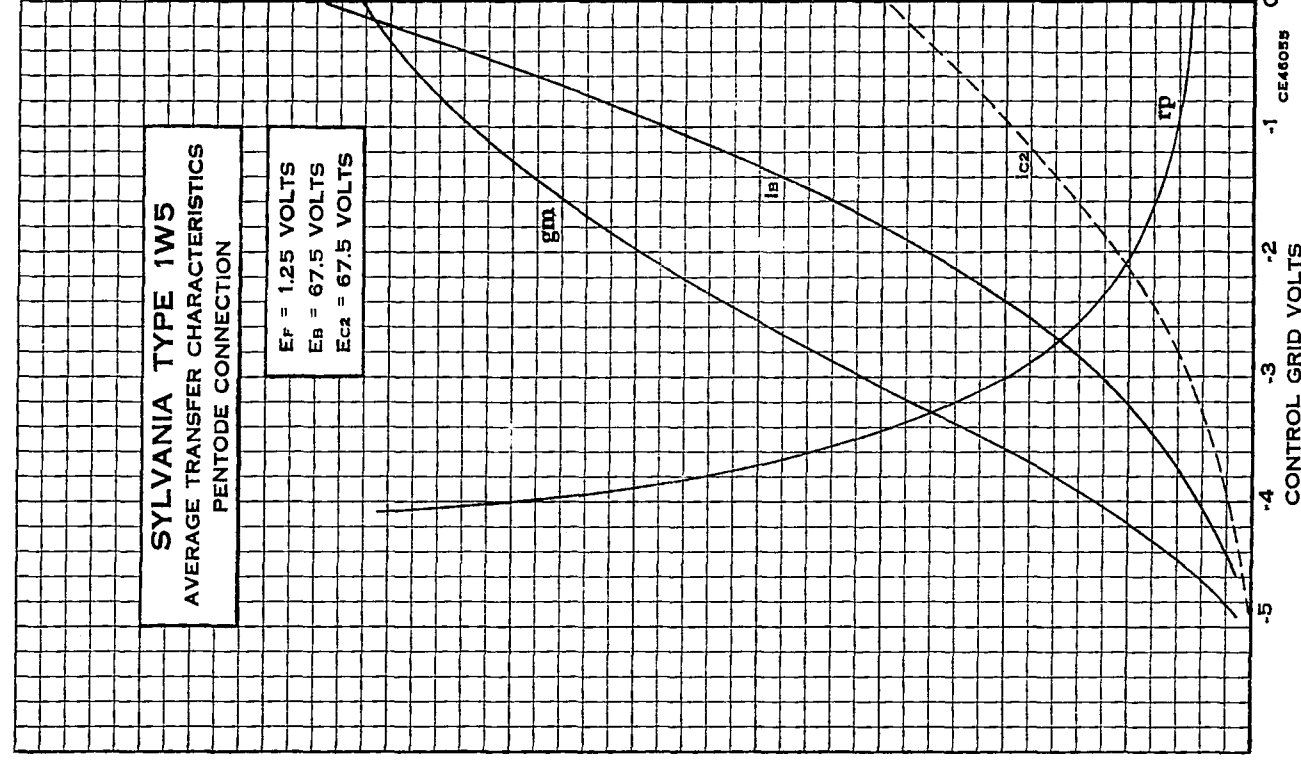
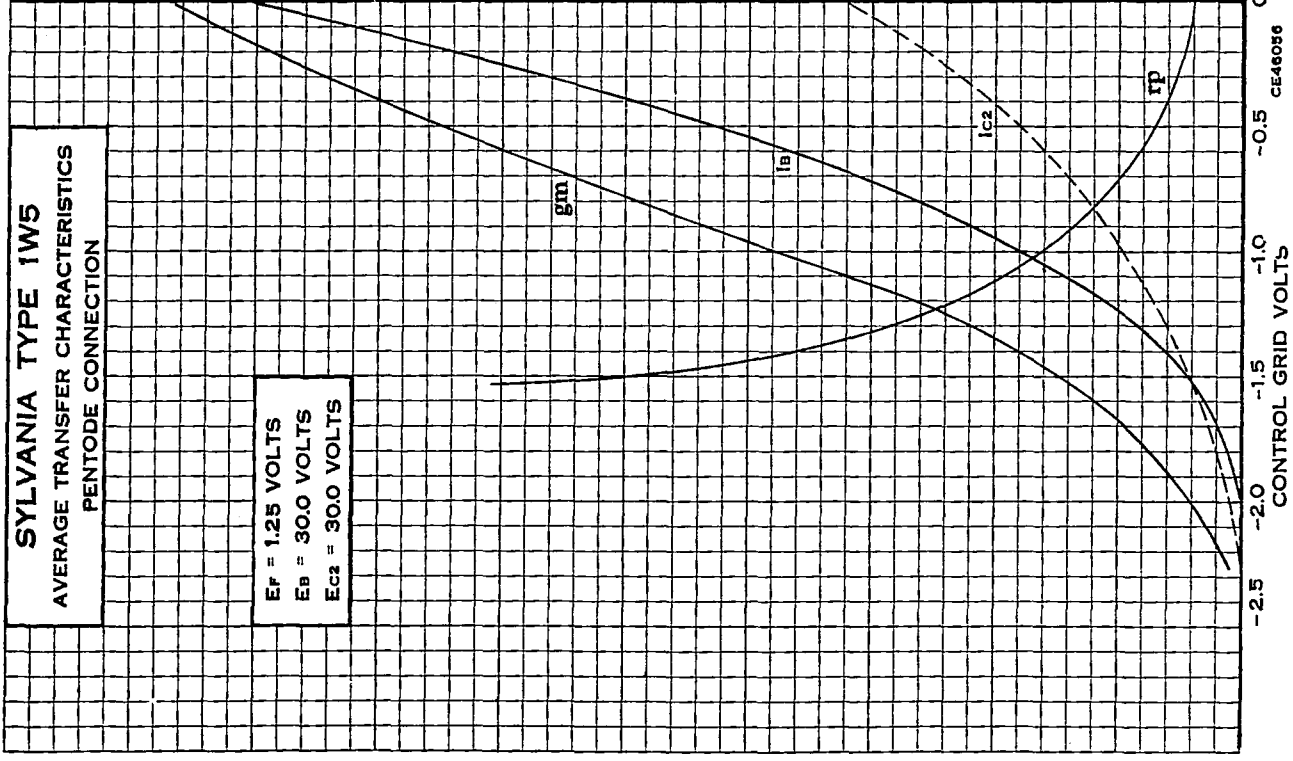
PHYSICAL SPECIFICATIONS

Style	T-3
Base	Flexible Leads
Bulb	T-3
Diameter	0.400" Max.
Lead Length	1.25" Min.
Overall Length	1.5" Max.
Mounting Position	Any

BASE PIN CONNECTIONS

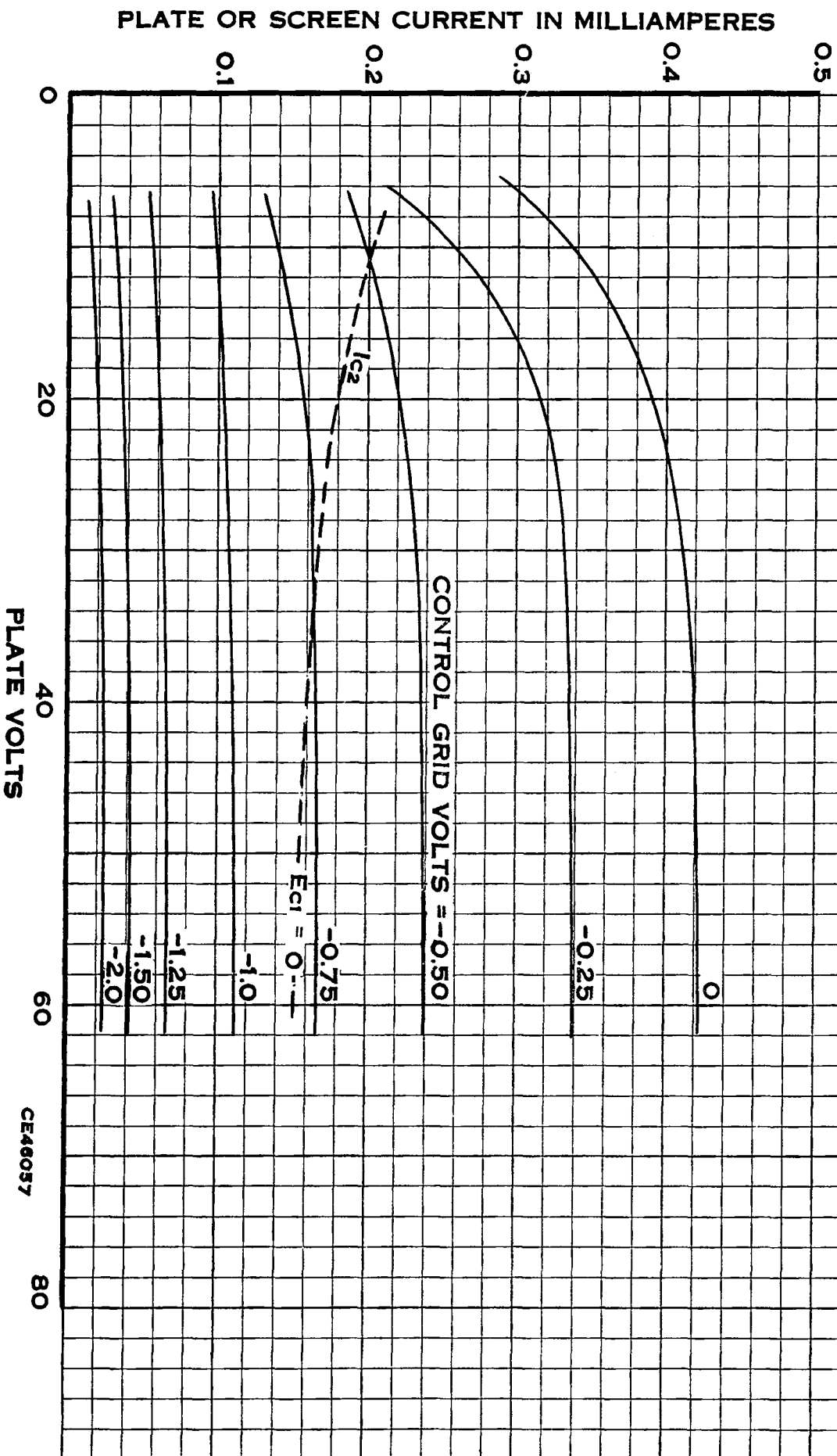
Pin 1 - No Connection
Pin 2 - Control Grid
Pin 3 - No Connection
Pin 4 - Negative Filament / Suppressor
Pin 5 - Positive Filament
Pin 6 - No Connection
Pin 7 - Plate
Pin 8 - Screen Grid
RMA Basing 8CP-0-0

from RMA release #467A,
Jan. 31, 1947



SYLVANIA TYPE 1W5 AVERAGE PLATE CHARACTERISTICS PENTODE CONNECTION

$E_F = 1.25$ VOLTS
 $E_{C2} = 30.0$ VOLTS



PENTODE CONNECTION

Ec2 = 67.5 VOLTS

