TECHNICAL DATA

IV5

Sylvania

TYPE IV5

OUTPUT PENTODE

RATINGS AND CHARACTERISTICS

Filament Voltage DC	1.25	Volts
Maximum Plate Voltage	100	Volts
Maximum Screen Voltage	100	Volts
Maximum Cathode Current	5.0	Ma.

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

OPERATING CONDITIONS AND CHARACTERISTICS

Filament Voltage DC	1.25	1.25	1.25	Volts
Filament Current	.040	.040	.040	Ampere
Plate Voltage	30	45	67.5	Volts
Screen Voltage	30	45	67.5	Volts
Grid Voltage	-2.0	-3.0	-4.5	Volts
Plate Current	0.50	1.0	2.0	Ma.
Screen Current	0.10	0.2	0.40	Ma.
Plate Resistance	.200	.175	.150	Megohm
Mutual Conductance	450	600	750	µmhos
Load Resistance	50,000	40,000	25,000	Ohms
Power Output	5	15	50	Milliwatts
Total Harmonic Distortion	10	10	10	o/o

CIRCUIT APPLICATION

Sylvania Type IV5 is an Output Pentode 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 1W5 (RF Pentode).

This type corresponds in service and circuit requirements to Type 1LA4 except for the improved plate current economy.

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 and permit great reduction in size of completed equipment, or may be cut off for use in a socket designed for this purpose.

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COMMERCIAL ENGINEERING DEPARTMENT
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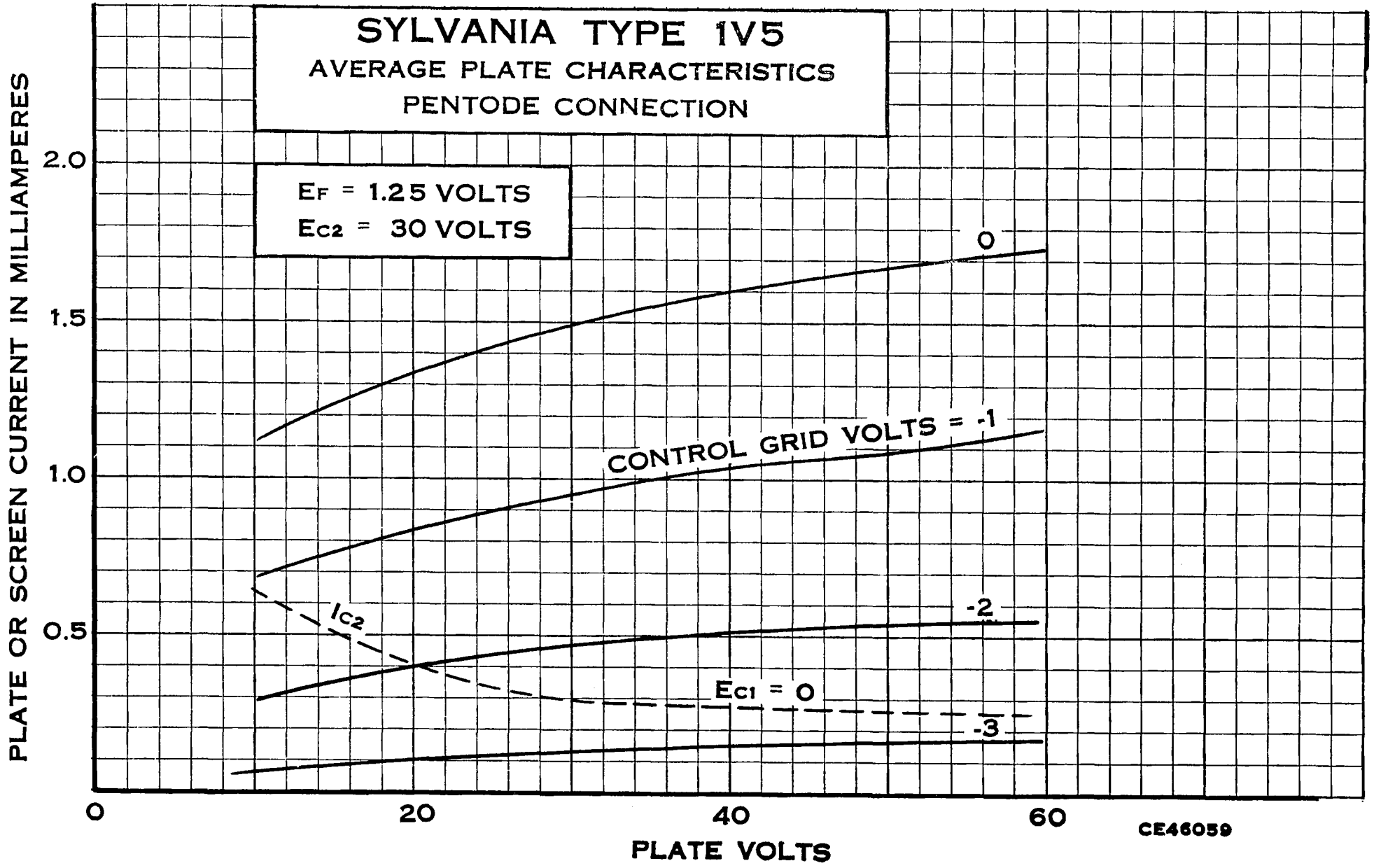
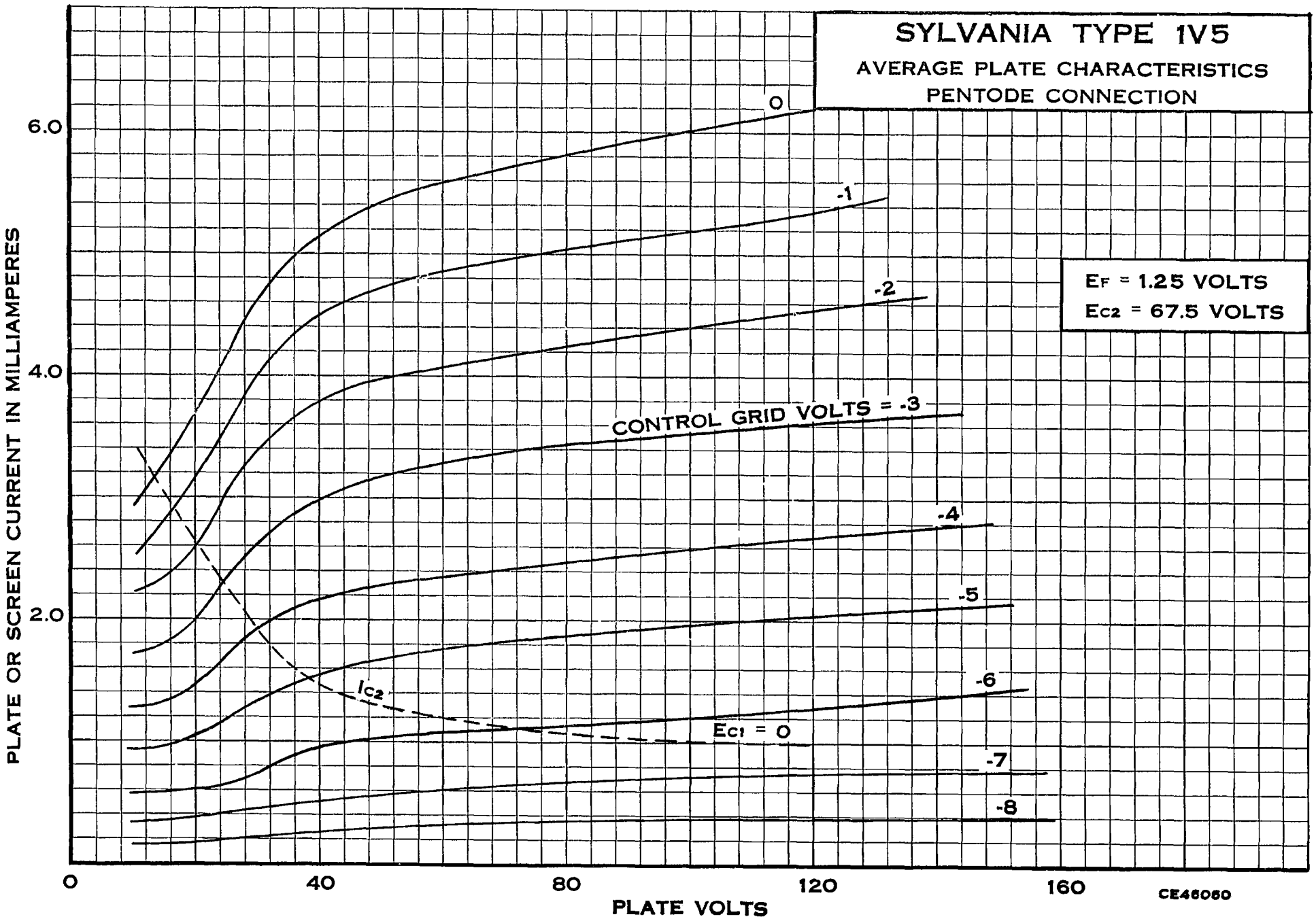

SYLVANIA TYPE 1V5
AVERAGE PLATE CHARACTERISTICS
PENTODE CONNECTION
EF = 1.25 VOLTS
Ec2 = 30 VOLTS
0
CONTROL GRID VOLTS = -1
-2
-3
Ic2
Ec1 = 0
PLATE OR SCREEN CURRENT IN MILLIAMPERES
2.0
1.5
1.0
0.5
0
20
40
60
PLATE VOLTS
CE46059


SYLVANIA TYPE 1V5
AVERAGE PLATE CHARACTERISTICS
PENTODE CONNECTION
EF = 1.25 VOLTS
EC2 = 67.5 VOLTS
CONTROL GRID VOLTS = -3
0
-1
-2
-4
-5
-6
-7
-8
IC2
EC1 = 0
PLATE OR SCREEN CURRENT IN MILLIAMPERES
6.0
4.0
2.0
0
40
80
120
160
PLATE VOLTS
CE46060