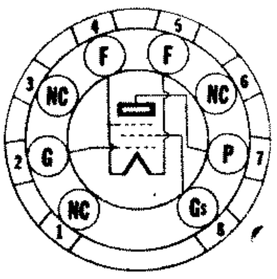


8CP-0-0

Sylvania Type 1V5

OUTPUT PENTODE

PHYSICAL SPECIFICATIONS

Base	Flexible Leads
Bulb	T-3
Minimum Lead Length	1¼"
Maximum Bulb Length	1½"
Mounting Position	Any

RATINGS

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

TYPICAL OPERATION

CLASS A AMPLIFIER

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 Megohms
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 %

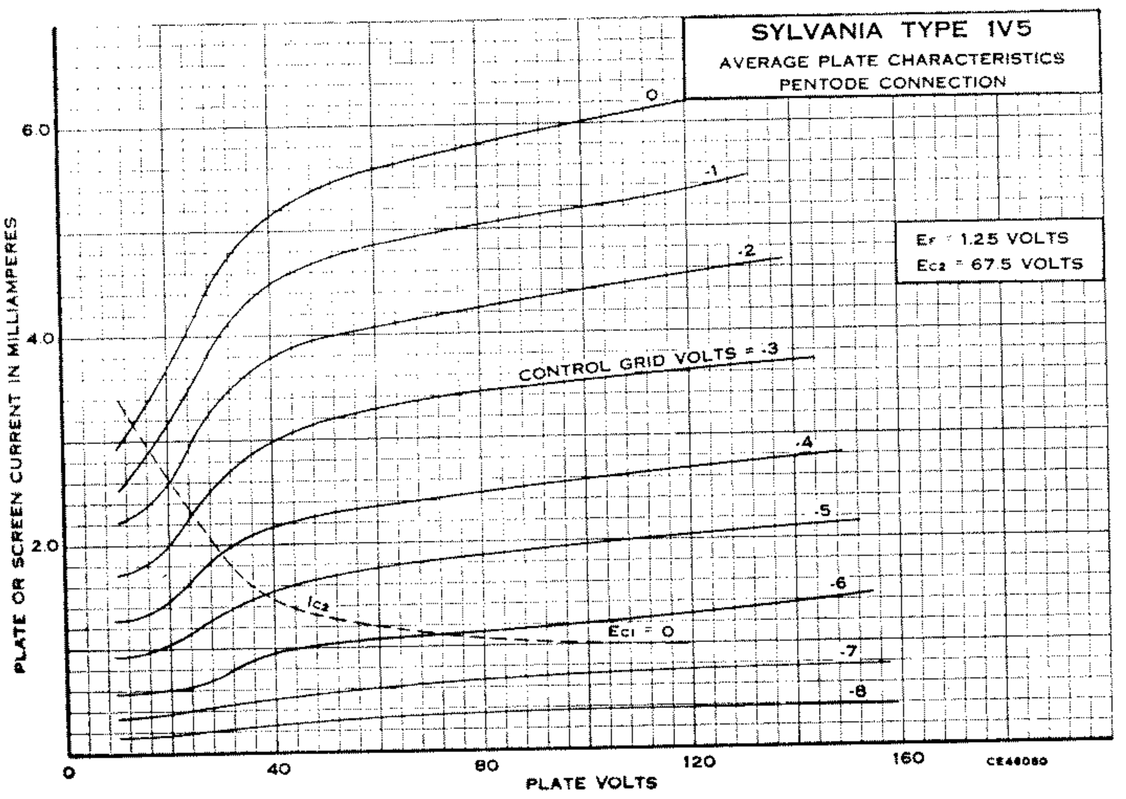
APPLICATION

Sylvania Type 1V5 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).

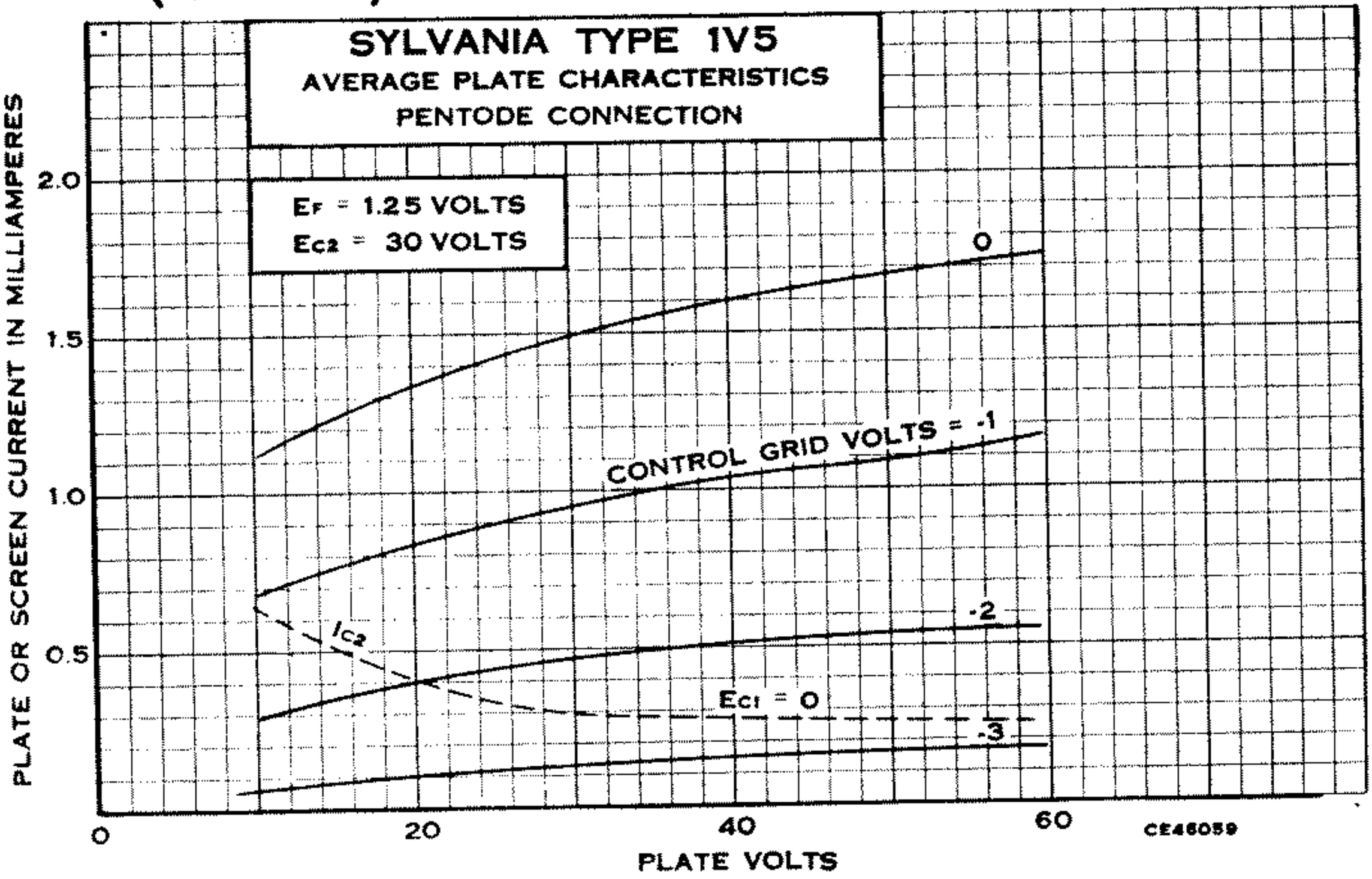
This type corresponds in service and circuit requirements to Type 1LA4 except for the improved plate current economy.

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.



1V5 (Contd.)


SYLVANIA TYPE 1V5
AVERAGE PLATE CHARACTERISTICS
PENTODE CONNECTION
EF = 1.25 VOLTS
EC2 = 30 VOLTS
PLATE OR SCREEN CURRENT IN MILLIAMPERES
2.0
1.5
1.0
0.5
0
20
40
60
PLATE VOLTS
CONTROL GRID VOLTS = -1
-2
-3
EC1 = 0
IC2
CE46059