

July 18, 1940

HYGRADE SYLVANIA CORPORATION
 TECHNICAL DATA
 SYLVANIA TYPE 3LE4
 Power Amplifier

Physical Specifications

Coated Filament with Center Tap connected to Pin #7.
 Base Lock-in 8-Pin
 Bulb T-9
 Maximum Diameter 1 3/16"
 Maximum Overall Length 2 25/32"
 Maximum Seated Height 2 1/4"
 Pin Connections RMA Basing No. 6BA-L-0
 Pin 1 - Filament (Positive) Pin 5 - No Connection
 Pin 2 - Plate Pin 6 - Grid #1 (Control)
 Pin 3 - Grid #2 (Screen) Pin 7 - Negative Filament and G₃
 (Parallel)
 Pin 4 - No Connection Pin 8 - Negative Filament (Series)

Mounting Position AnyRatings

	Series Filament+	Parallel Filament *	
Maximum Filament Voltage			
Battery Operation - Voltage must never Exceed	3.2	1.6	Volts
AC/DC Power Line Operation - Design Center	2.6	1.3	Volts
Maximum Plate Voltage	110	110	Volts
Maximum Screen Voltage	110	110	Volts
Maximum Cathode Current	6.5+	13	ma

Typical Operating Conditions and Characteristics Amplifier Class A₁

	Series Filament +	Parallel Filament *	
Filament Voltage	2.8dc	1.4 dc	Volts
Filament Current	0.050	0.100	Ampere
Plate Voltage	90	90	Volts
Screen Voltage	90	90	Volts
Grid Voltage	-9	-9	Volts
Peak Signal Voltage	9	9	Volts
Plate Current	9.0	10.0	ma
Screen Current	1.8	2	ma
Transconductance	1600	1750	umhos
Plate Resistance	110,000	100,000	Ohms
Load Resistance	6,000	6,000	Ohms
Total Harmonic Distortion	11	11	Per Cent
Power Output	300	325	Milliwatts

* For Parallel Filament Operation connect Pins #1 and #8 to positive voltage supply and pin #7 to negative voltage supply.

+ A resistor of 250 ohms must be used in parallel with the negative section of the filament (Pins 7 and 8) in order to insure that the value of 6.5 ma total cathode current for each 1.4 volt section of the filament is not exceeded.

For interpretation of ratings, refer to Receiving Tube Rating Sheet