

January 24, 1940

HYGRADE SYLVANIA CORPORATION

TECHNICAL DATA

SYLVANIA TYPE 11B6

Pentagrid Mixer

TENTATIVE RATINGS AND CHARACTERISTICS

Filament Voltage (Nominal)	1.4 volts
Filament Current (Nominal)	0.05 ampere

Direct Interelectrode Capacitances:*

Grid G ₁ to Grid G ₃	0.2 uuf. Max.
Grid G ₁ to Plate	0.1 uuf. Max.
Grid G ₃ to Plate	0.2 uuf. Max.
Grid G ₁ to all other Electrodes	3.8 uuf.
Grid G ₃ to all other Electrodes	8.0 uuf.
Plate to all other Electrodes	7.0 uuf.

* With tube shield (RMA Standard M8-308) connected to negative filament.

OPERATING CONDITIONS AND CHARACTERISTICS

Mixer Operation

Filament Voltage	1.4 volts
Plate Voltage	90 volts Max.
Screen Voltage (Grids #2 and #4)	67.5 volts Max.
Signal Grid Voltage (Grid #1)	0 volts
Oscillator Grid Voltage (Grid #3)	0 volts
Suppressor (Grid #5)	Connected to negative filament
Peak Oscillator Grid Voltage Applied to Grid #3	10 min. volts
Plate Resistance	2 megohms approx.
Conversion Conductance $E_{c1} = 0$	100 umhos
Conversion Conductance $E_{c1} = -4.5$	5 umhos
Plate Current	0.40 ma
Screen Grid Current	2.2 ma

Base	-	"Loktal"	8 pin
Bulb	-	T-9	
Max. Overall Length			2 25/32"
Max. diameter			1 3/16"
Max. seated height			2 1/4"

BASING:

Pin #1	-	Filament	Pin #5	-	Grid #5
Pin #2	-	Plate	Pin #6	-	Grid #1
Pin #3	-	Grid #2	Pin #7	-	Grid #4
Pin #4	-	Grid #3	Pin #8	-	-Filament

