

# Sylvania TYPE 6X5 HIGH VACUUM FULL-WAVE RECTIFIER

## CHARACTERISTICS

Heater Voltage AC or DC . . . . .	6.3 Volts
Heater Current . . . . .	0.6 Ampere
Maximum Over-all Length . . . . .	3 1/4"
Maximum Diameter . . . . .	1 1/8"
Base—Small Octal 6-Pin . . . . .	6-S

## Operating Conditions and Characteristics:

Heater Voltage AC or DC . . . . .	6.3 Volts
Heater Current . . . . .	0.6 Ampere
A-C Voltage per Plate (RMS) . . . . .	350 Volts Max.
D-C Output Current . . . . .	75 Ma. Max.
Peak Inverse Voltage . . . . .	1250 Volts
Peak Plate Current per Plate . . . . .	375 Ma. Max.
Voltage between Heater and Cathode . . . . .	400 Volts DC Max.

NOTE: For rectifier curve data on Type 6X5 see Page 152.

## CIRCUIT APPLICATION

This tube is designed for use as a rectifier for auto-radio receivers or for a-c operated receivers where the demand for rectified current is low. It is similar to the Type 84 and therefore usable in similar applications.

In order to obtain satisfactory output and regulation, careful consideration should be given to proper filtering. Filter circuits of the condenser-input or the choke-input type are applicable.

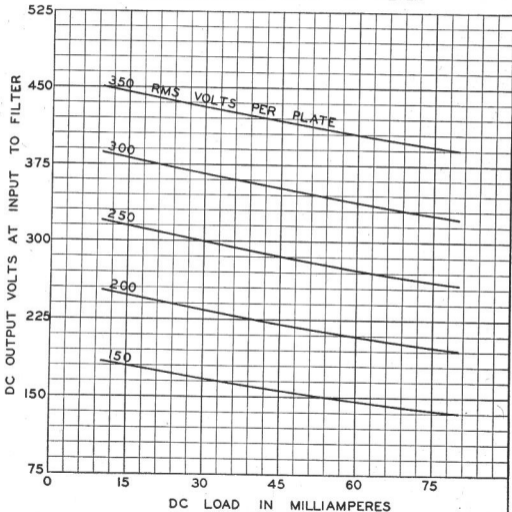
The d-c output will be considerably greater with a condenser-input filter than when the other type is used. Also, it will be true that higher peak plate currents will be encountered. The first condenser in the filter circuit, therefore, should not be too large in capacitance. It is not likely that the a-c input voltage will be a pure sine wave form so that the instantaneous peak values may be considerably greater than 1.4 times the r-m-s value. The voltage ratings of the condensers must be such as to handle the maximum peak values encountered.

When used with a vibrator and transformer combination as a source of a.c., considerable care must be taken in the transformer design, as well as the filter design, to avoid exceeding any of the maximum ratings.

# TYPE 6X5

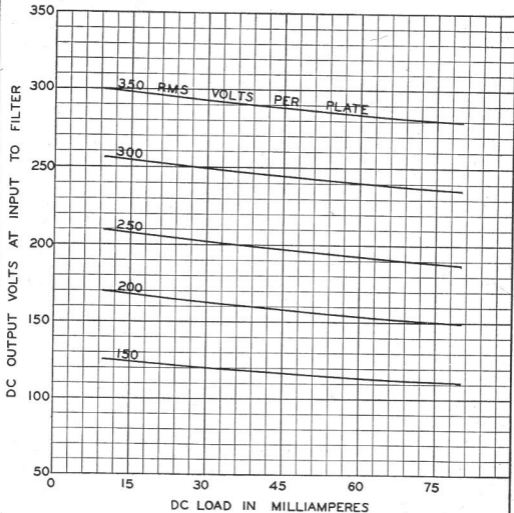
$E_f = 6.3$  VOLTS

4 MFD. CONDENSER INPUT TO FILTER



# TYPE 6X5

$E_f = 6.3$  VOLTS  
CHOKE INPUT TO FILTER



SYLVANIA SET-TESTED TUBES