



Excellence in Electronics

The 6X5WGT is a heater-cathode type, high-vacuum double diode designed for use as a full-wave power rectifier in equipment of moderate current requirements. It is designed for dependable operation under conditions of shock and vibration usually found in mobile and aircraft applications.

MECHANICAL DATA

ENVELOPE: T-9 Glass

BASE: Intermediate or Short Intermediate Shell Octal 6-Pin

TERMINAL CONNECTIONS:

Pin 1 No Connection
Pin 2 Heater
Pin 3 Plate #2

Pin 5 Plate #1
Pin 7 Heater
Pin 8 Cathode

MOUNTING POSITION: Any

ELECTRICAL DATA

HEATER CHARACTERISTICS:

Heater Voltage (ac or dc)
Heater Current
Heater-Cathode Voltage

6.3 volts
0.6 amp.
450 volts

DESIGN CENTER MAXIMUM RATINGS:

Peak Inverse Plate Voltage
Peak Plate Current per Plate
DC Output Current

1250 volts
210 ma.
70 ma.

CHARACTERISTICS AND TYPICAL OPERATION - FULL-WAVE RECTIFIER:

AC Plate Voltage, per Plate (RMS)
Min. Total Effective Plate Supply Impedance, per Plate
Filter Input Condenser
Filter Input Choke
DC Output Current
DC Voltage at Input to Filter (approx.)
At 35 ma. load.
At 70 ma. load.
Regulation
Tube Voltage Drop at 70 ma. per plate

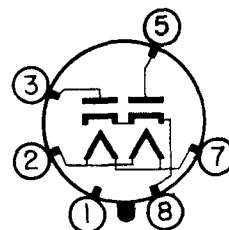
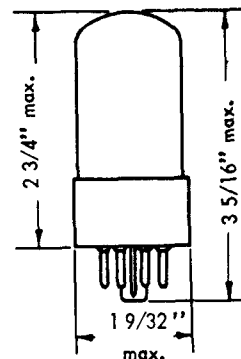
Choke Input
450

8
70

385
380
5

22

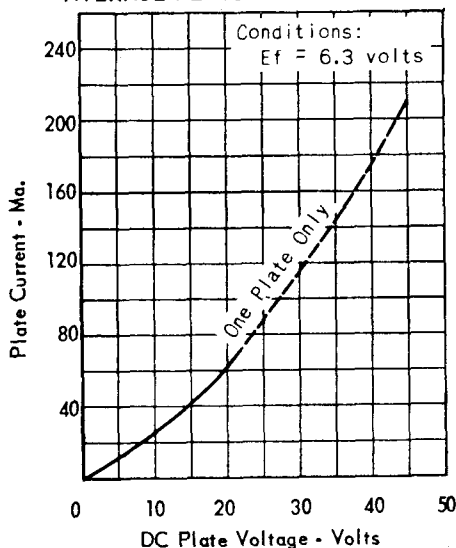
Condenser Input
325 volts
150 ohms
4 μ fd.
70 ma.
405 volts
370 volts
35 volts
volts



BOTTOM VIEW

6S

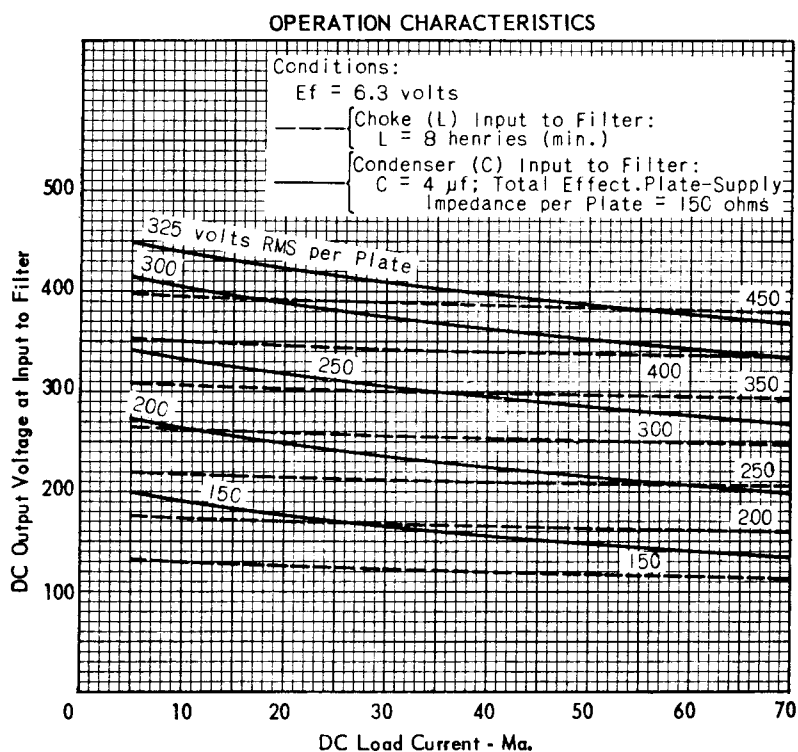
AVERAGE PLATE CHARACTERISTICS



Tentative Data



DOUBLE DIODE



RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS