



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.

TYPE 6X5WGT

MECHANICAL DATA

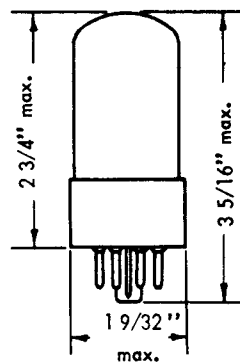
ENVELOPE: T-9 Glass

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:

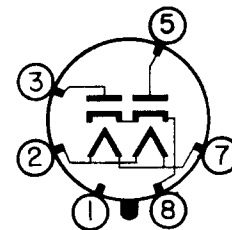
- Heater Voltage (ac or dc) 6.3 volts
- Heater Current 0.6 amp.
- Heater-Cathode Voltage 450 volts

DESIGN CENTER MAXIMUM RATINGS:

- Peak Inverse Plate Voltage 1250 volts
- Peak Plate Current per Plate 210 ma.
- DC Output Current 70 ma.

CHARACTERISTICS AND TYPICAL OPERATION - FULL-WAVE RECTIFIER:

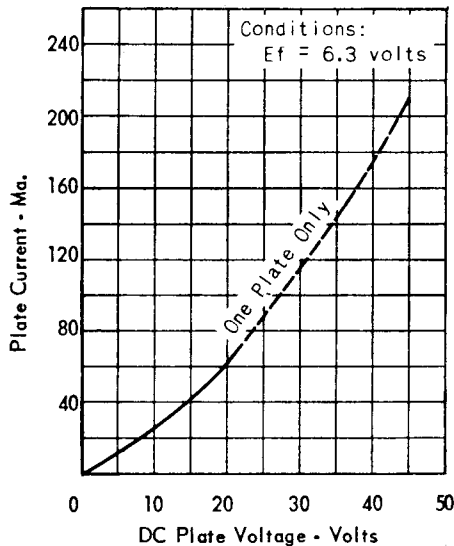
	Choke Input	Condenser Input
AC Plate Voltage, per Plate (RMS)	450	325 volts
Min. Total Effective Plate Supply Impedance, per Plate		150 ohms
Filter Input Condenser		4 μ fd.
Filter Input Choke	8	henries
DC Output Current	70	70 ma.
DC Voltage at Input to Filter (approx.)		
At 35 ma. load.	385	405 volts
At 70 ma. load.	380	370 volts
Regulation	5	35 volts
Tube Voltage Drop at 70 ma. per plate		22 volts



BOTTOM VIEW

6S

AVERAGE PLATE CHARACTERISTICS



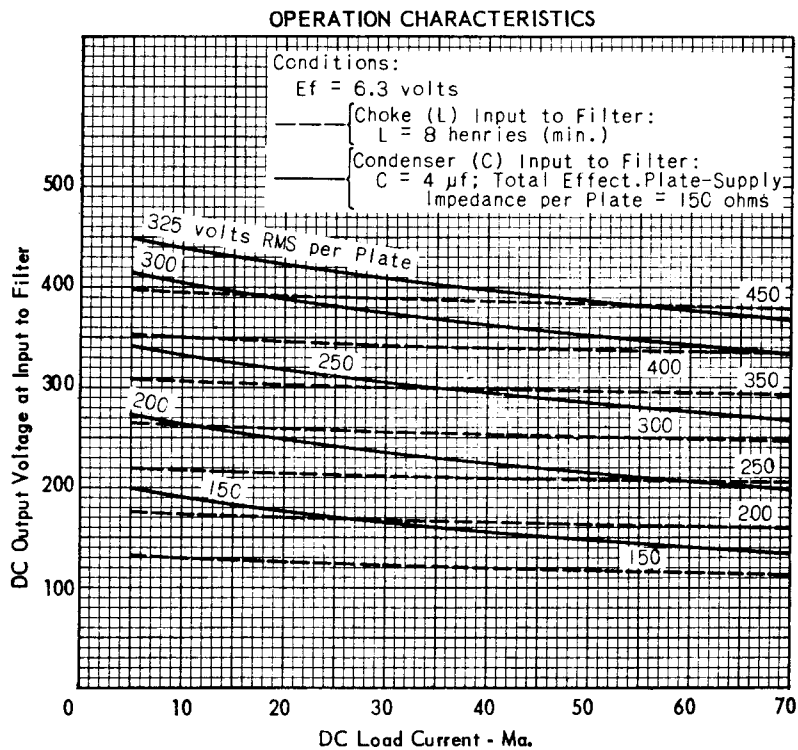
Tentative Data

RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



DOUBLE DIODE



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