



*Excellence in Electronics*

# TYPE 6X5WGT

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 5 Plate #1 |
| Pin 2 Heater        | Pin 7 Heater   |
| Pin 3 Plate #2      | Pin 8 Cathode  |

MOUNTING POSITION: Any

### ELECTRICAL DATA

HEATER CHARACTERISTICS:

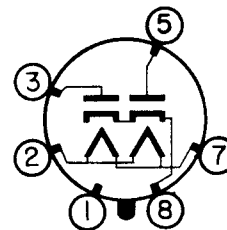
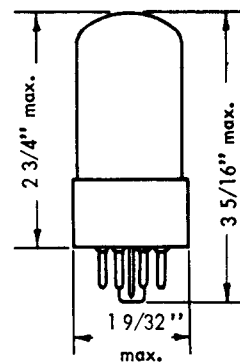
- |                           |           |
|---------------------------|-----------|
| Heater Voltage (ac or dc) | 6.3 volts |
| Heater Current            | 0.6 amp.  |
| Heater-Cathode Voltage    | 450 volts |

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:

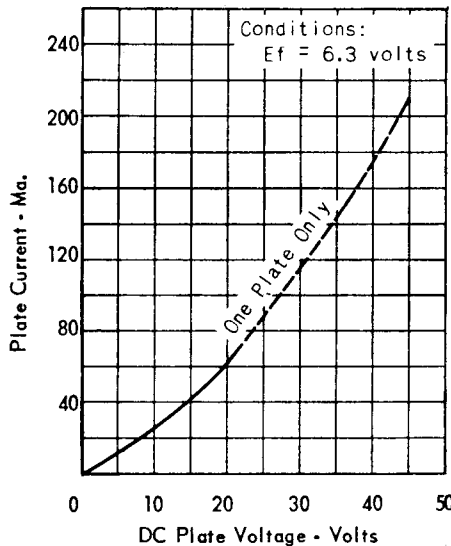
|  | Choke Input | Condenser Input |
|--|-------------|-----------------|
| AC Plate Voltage, per Plate (RMS)                      | 450         | 325 volts       |
| Min. Total Effective Plate Supply Impedance, per Plate |             | 150 ohms        |
| Filter Input Condenser                                 |             | 4 $\mu$ 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



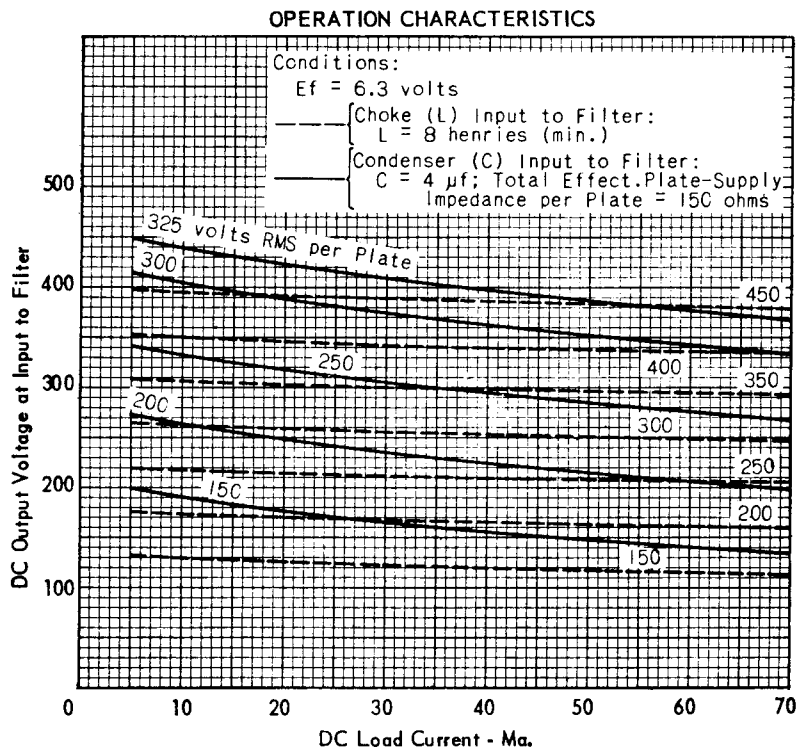
Tentative Data

RAYTHEON MANUFACTURING COMPANY

RECEIVING AND CATHODE RAY TUBE OPERATIONS



DOUBLE DIODE



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