Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	450 Volts
Heater Positive with Respect to Cathode	100 Volts
RATINGS (Design Center Rating System)	
Peak Inverse Plate Voltage	1250 Volts
AC Plate Supply Voltage (RMS) with DC Output Current of 35 Ma Per Plate	325 Volts
Steady State Peak Plate Current	210 Ma
Rectification Efficiency to keep within Steady State Peak Current Rating at 35 Ma Per Plate	67.5 Percent
Transient Peak Plate Current Per Plate (1)	1.0 Ampere
Minimum Plate Supply Resistance Per Plate for 325 Volt RMS Supply	325 Ohms
Tube Voltage Drop (70 Ma Per Plate)	22 Volts
DC Output Current Each Plate with 325 Volts AC Plate Supply Voltage (RMS)	
Capacitor Input to Filter	35 Ma
Choke Input to Filter	42 Ma

CHARACTERISTICS AND TYPICAL OPERATION
Full Wave Rectifier

	Input to Filter Capacitor	Choke
AC Plate Supply Voltage Per Plate (RMS)	325	450 Volts
Filter Input Capacitor (2)	10	— μf
Filter Input Choke (Minimum)	—	10 Henrys
Total Effective Plate Supply Impedance (Per Plate) (2)	525	— Ohms
DC Output Current	70	70 Ma
DC Output Voltage at Filter Input (Approx.)		
For DC Cathode Current of 35 Ma	365	395 Volts
For DC Cathode Current of 70 Ma	310	385 Volts
Difference (Voltage Regulation)	55	10 Volts
Percentage Regulation	15	2.5 Percent

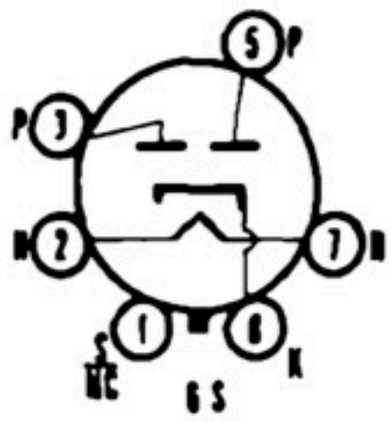
NOTES:
(1) If capacitor input circuits are to be used, protect the circuits against the possibility of hot-switching and do not exceed a maximum peak current value of one (1) ampere during the initial cycles of the hot-switching transient.
(2) When a filter capacitor larger than 10 μf is used, it may be necessary to add additional plate supply impedance to limit the hot-switching transient plate current to rated maximum.

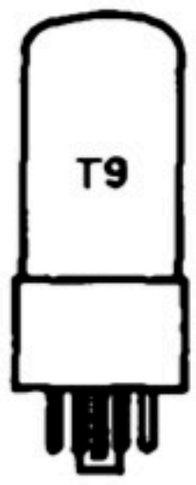
6X5GT

FULL-WAVE POWER RECTIFIER

Heater-Cathode Twin Diode

Construction	Octal T-9
Base	Octal 6 Pin
Basing	6S
Outline	9-11
Maximum Diameter	1.188 In.
Maximum Seated Height	2.750 In.
Maximum Overall Height	3.212 In.





ELECTRICAL DATA
HEATER OPERATION

Heater Voltage	6.3 Volts
Heater Current	600 Ma
Maximum Heater-Cathode Voltage	450 Volts
RATINGS (Design Center Rating System)	
Peak Inverse Voltage (Max.)	1250 Volts
Steady State Peak Plate Current (Each Plate) (Max.)	210 Ma
Tube Voltage Drop (70 Ma Per Plate) (Max.)	22 Volts
CHARACTERISTICS AND TYPICAL OPERATION	
Capacitor Input to Filter	
Plate Voltage (Each Plate—RMS)	325 Volts
DC Output Current	70 Ma
Effective Plate Supply Impedance (Each Plate) (1)	150 Ohms
Choke Input to Filter	
Plate Voltage (Each Plate—RMS)	450 Volts
DC Output Current	70 Ma
Input Choke Value (Min.)	10 Henrys

NOTE:
(1) Additional impedance may be required when a filter of more than 40 μf is used.