

Negative DC Grid Voltage (Max.)	50 Volts
Plate Dissipation (Each Section) (Max.)	2.7 Watts
CHARACTERISTICS AND TYPICAL OPERATION	
Class A1 Amplifier (Each Section)	
Plate Voltage	150 Volts
Cathode Bias Resistor	56 Ohms
Plate Current	18 Ma
Transconductance	9300 μ mhos
Amplification Factor	43
Plate Resistance.....	4600 Ohms
Grid Voltage for Ib = 10 μ a	-11 Volts

NOTES:

- (1) When operated as a cascode amplifier and the two sections are connected in series, the heater-cathode voltage of the grounded grid stage may be as high as 300 volts maximum with the heater negative with respect to the cathode.
- (2) Section 1 connects to Pins 6, 7, and 8. Section 2 connects to Pins 1, 2, and 3.

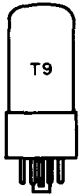
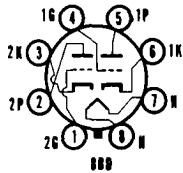
Color Television Type

**VERTICAL DEFLECTION
OSCILLATOR AND AMPLIFIER**

6BL7GT

Twin Triode

Construction	Octal T-9
Base	8 Pin, B8-58
Basing	.8BD
Outline	9-41
Maximum Diameter	1.188 In.
Maximum Seated Height	2.750 In.
Maximum Overall Height	3.313 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage.....	6.3 Volts
Heater Current	1500 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
Total DC and Peak.....	200 Volts
Heater Positive with Respect to Cathode	
DC	100 Volts
Total DC and Peak.....	200 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

	Section No. 1	Section No. 2
Grid to Plate	6.0	6.0 Pf
Input	4.2	4.6 Pf
Output	0.9	0.9 Pf

RATINGS (Design Center Rating System)

Vertical Deflection Oscillator and Amplifier^(1,2)

	Oscillator	Amplifier
Plate Voltage (Max.)	500	500 Volts
Peak Positive Pulse Plate Voltage (Abs. Max.).....	3	2000 Volts
Plate Dissipation (Each Plate) (Max.) ⁽³⁾	10	10 Watts
Total Plate Dissipation (Both Plates) (Max.)	12	12 Watts
Peak Negative Pulse Grid Voltage (Max.)	400	250 Volts
Average Cathode Current (Max.).....	60	60 Ma
Peak Cathode Current (Max.)	210	210 Ma
Grid Circuit Resistance (Max.).....	2.2	2.2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION (Each Section)

Plate Voltage	250 Volts
Grid Voltage	-9 Volts
Plate Current	40 Ma
Transconductance	7000 μ mhos
Amplification Factor	15
Plate Resistance (Approx.)	2150 Ohms
Plate Current at Ec = -17 Volts	4.0 Ma
Ec1 for Ib = 50 μ a (Approx.).....	-23 Volts

INSTANTANEOUS PLATE KNEE CHARACTERISTICS

Eb = 150 V and Ec1 = 0 V
Ib = 65 Ma