

- (2) Grid No. 2 connected to plate.
- (3) Common cathode resistor for push-pull applications.
- (4) Per grid.
- (5) Measured from grid No. 2 to plate.
- (6) For Pentode Operation—Class A Amplifier Service, the maximum signal power output and total distortion are measured at fixed bias and therefore represses the power output available during the reproduction of speech and music. When a sustained sine wave is applied to the control grid the bias across the cathode resistor will readjust itself as a result of the increased plate and screen grid currents. This will result in approximately 10 percent reduction in power output.
- (7) Measured with fixed bias.
- (8) Grid No. 2 taps located at 43% of primary winding.

Color Television Type

HORIZONTAL DEFLECTION AMPLIFIER

6BQ6GTB/6CU6

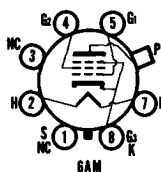
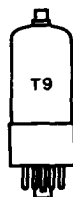
12BQ6GTB/12CU6

17BQ6GTB

25BQ6GTB/25CU6

Beam Power Pentode

Construction Octal T-9
 Base⁽¹⁾... B5-187, B6-81, B6-84, B7-7, or B7-59
 Top Cap..... C1-2, C1-3, or C1-33
 Basing 6AM
 Outline 9-49 or 9-50
 Maximum Diameter 1.188 In.
 Maximum Seated Height 3.313 In.
 Maximum Overall Height 3.875 In.



ELECTRICAL DATA HEATER OPERATION

	25BQ6GTB/ 25CU6	17BQ6GTB	12BQ6GTB/ 12CU6	6BQ6GTB/ 6CU6
Heater Voltage.....	25	16.8	12.6	6.3 Volts
Heater Current	300	450	600	1200 Ma
Heater Warm-up Time	—	11	11	— Seconds
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)

Grid No. 1 to Plate	0.6 Pf
Input	15 Pf
Output	7.5 Pf

RATINGS (Design Center Rating System)

Horizontal Deflection Amplifier⁽²⁾

DC Plate Supply Voltage (Boost + DC Power Supply) (Max.)	600 Volts
Peak Positive Plate Voltage (Abs. Max.)	6000 Volts
Peak Negative Plate Voltage (Max.)	1250 Volts
Plate Dissipation (Max.) ⁽³⁾	11 Watts
Peak Negative Grid No. 1 Voltage (Max.)	300 Volts
Grid No. 2 Voltage (Max.)	200 Volts
Grid No. 2 Dissipation (Max.)	2.5 Watts
Average Cathode Current (Max.)	110 Ma
Peak Cathode Current (Max.)	400 Ma
Grid No. 1 Circuit Resistance (Max.)	0.47 Megohm
Bulb Temperature (At Hottest Point) (Max.)	220 °C

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250 Volts
Grid No. 2 Voltage	150 Volts
Grid No. 1 Voltage	-22.5 Volts
Plate Current	57 Ma
Grid No. 2 Current	2.1 Ma
Transconductance	5900 μ mhos
Plate Resistance.....	14,500 Ohms
Amplification Factor (Eb and Ec2 = 150 V, Ec1 = -22.5 V)	4.3
Ec1 for Ib = 1.0 Ma (Approx.)	-43 Volts

INSTANTANEOUS PLATE KNEE VALUES

Eb = 60 V; Ec2 = 150 V and Ec1 = 0
 Ib = 260 Ma, and Ic2 = 26 Ma