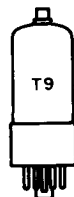
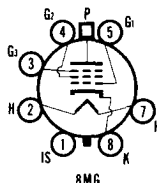


50JY6**HORIZONTAL DEFLECTION
AMPLIFIER****Beam Power Pentode**

Construction Octal T-9
 Base Octal 7 or 8 Pin, B7-59 or B8-58
 Top Cap C1-2 or C1-3
 Basing 8MG
 Outline
 Maximum Diameter 1.188 In.
 Maximum Seated Height 3.740 In.
 Maximum Overall Height 4.331 In.

**ELECTRICAL DATA****HEATER OPERATION**

Heater Voltage.....	50 Volts
Heater Current.....	150 Ma
Maximum Heater-Cathode Voltage	
Heater Negative with Respect to Cathode	
DC.....	250 Volts
Total DC and Peak.....	250 Volts
Heater Positive with Respect to Cathode	
DC.....	200 Volts
Total DC and Peak.....	250 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate (Max.).....	1.1 Pf
Input: g1 to (h + k + g2 + g3).....	17.5 Pf
Output: p to (h + k + g2 + g3).....	8 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.).....	275 Volts
Plate Voltage Without Plate Current (Max.).....	600 Volts
Peak Positive Pulse Plate Voltage (Max.) ⁽¹⁾	7700 Volts
Peak Negative Pulse Plate Voltage (Max.) ⁽¹⁾	1650 Volts
Grid No. 3 Voltage (Max.) ⁽²⁾	70 Volts
Grid No. 2 Voltage (Max.).....	275 Volts
Peak Negative Pulse Grid No. 1 Voltage (Max.).....	1100 Volts
Grid No. 2 Voltage Without Grid No. 2 Current (Max.).....	600 Volts
Plate Dissipation (Max.).....	13 Watts
Grid No. 2 Dissipation (Max.).....	5.5 Watts
DC Cathode Current (Max.).....	220 Ma
Grid No. 1 Circuit Resistance (Max.).....	0.5 Megohm
Grid No. 1 Circuit Resistance	
For Line Output Tube Application Only (Max.).....	2.2 Megohms
Circuit Resistance Between Heater Cathode (Max.).....	20,000 Ohms

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage.....	100 Volts
Grid No. 3 Voltage.....	Connected to Cathode at Socket
Grid No. 2 Voltage.....	100 Volts
Grid No. 1 Voltage.....	-8.2 Volts
Plate Current.....	100 Ma
Grid No. 2 Current.....	7 Ma
Transconductance.....	14,000 μ mhos
Plate Resistance (Approx.).....	5000 Ohms
Amplification Factor ⁽³⁾	5.6

NOTES:

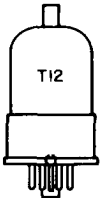
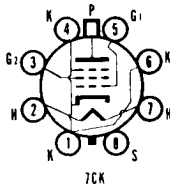
- (1) Valid for application in horizontal deflection amplifiers circuits where the maximum pulse duration is 22% of a cycle with a maximum of 18 μ sec.
- (2) in horizontal deflection amplifier service, a positive voltage may be applied to grid No. 3 to reduce interference from snivets which may occur in both VHF and UHF television receivers. A typical value for this voltage is 30 volts.
- (3) With Grid No. 2 connected to plate at socket.

**AUDIO POWER AMPLIFIER
MODULATOR or RF POWER AMP.**

6146B/8298A

Beam Power Pentode

Construction Octal T-12
Base Octal 8 Pin, B8-150 or B8-159
Top Cap C1-1
Basing 7CK
Outline
Maximum Diameter 1.562 In.
Maximum Seated Height 3.125 In.
Maximum Overall Height 3.687 In.



ELECTRICAL DATA

HEATER OPERATION

Heater Voltage 6.3 Volts
Heater Current 1125 Ma
Maximum Heater-Cathode Voltage
Heater Negative with Respect to Cathode 135 Volts
Heater Positive with Respect to Cathode 135 Volts

MAINTENANCE OF POWER CAPABILITY

With heater voltage reduced to 5.0 Volts, the power output obtained under the classes of service contained in these defining data will not be reduced by more than ten percent from that obtained at rated heater voltage. Plate input power for the classes of service would be maintained at that obtained using rated heater voltage.

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate (Max.) 0.22 Pf
Input 13.0 Pf
Output 8.5 Pf

RATINGS (Absolute Maximum Rating System)

AF Amplifier and Modulator

	Class AB1		Class AB2	
	CCS	ICAS	CCS	ICAS
Plate Voltage	600	750	600	750 Volts
Grid No. 2 Voltage	250	250	250	250 Volts
Plate Current (Max. Signal) ⁽¹⁾	175	220	175	220 Ma
Plate Input (Max. Signal) ⁽¹⁾	90	120	90	120 Watts
Plate Dissipation ⁽¹⁾	27	35	27	35 Watts
Grid No. 2 Input (Max. Signal) ⁽¹⁾	3	3	3	3 Watts
Grid No. 1 Circuit Resistance ^(4,5)	0.1	0.1	0.03	0.03 Megohm

Linear RF Amplifier—Class AB1 (Single Sideband Suppressed Carrier)

	CCS	ICAS
Plate Voltage	600	750 Volts
Grid No. 2 Voltage	250	250 Volts
Plate Current (Max. Signal)	175	220 Ma
Plate Dissipation	27	35 Watts
Grid No. 2 Dissipation	3	3 Watts

RF Amplifier Service—Class C

	Telephony ⁽¹⁾		Telegraphy or F. M. Telephony	
	CCS	ICAS	CCS	ICAS
Plate Voltage	480	600	600	750 Volts
Grid No. 2 Voltage	250	250	250	250 Volts
Grid No. 1 Voltage	-150	-150	-150	-150 Volts
Plate Current	145	180	175	220 Ma
Grid No. 1 Current	3.5	4.0	3.5	4.0 Ma
Plate Input	60	85	90	120 Watts
Plate Dissipation	18	23	27	35 Watts
Grid No. 2 Input	2	2	3	3 Watts
Grid No. 1 Circuit Resistance ⁽¹³⁾	0.03	0.03	0.03	0.03 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage 200 Volts
Grid No. 2 Voltage 200 Volts
Plate Current 100 Ma
Transconductance 7000 μ mhos
Amplification Factor (G1 to G2) 4.5