

Pentode

Grid No. 1 to Plate	0.16 Pf
Input: P _{g1} to (h + P _k + P _{g2} + P _{g3} + IS)	17 Pf
Output: P _p to (h + P _k + P _{g2} + P _{g3} + IS)	6.5 Pf

RATINGS (Design Maximum Rating System)

	Pentode Section	Triode Section
Plate Voltage (Max.)	330	330 Volts
Screen Voltage (Max.)	200	— Volts
Positive DC Grid No. 1 Voltage (Max.)	0	0 Volt
Plate Dissipation (Max.)	10	1.1 Watts
Screen Dissipation (Max.)	1.5	— Watts
Grid No. 1 Circuit Resistance		
With Fixed Bias (Max.)	0.1	0.5 Megohm
With Cathode Bias (Max.)	0.25	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Pentode Section	Triode Section
Plate Voltage	55 250	150 Volts
Screen Voltage	125 150	— Volts
Grid No. 1 Voltage	0 —	— Volt
Cathode-Bias Resistor	— 56	350 Ohms
Amplification Factor	— —	39
Plate Resistance (Approx.)	— 40,000	8500 Ohms
Transconductance	— 30,000	4600 μ mhos
Plate Current	56 28	6.2 Ma
Screen Current	21 5.6	— Ma
Grid No. 1 Voltage (Approx.)		
I _b = 20 μ a	— —	—7 Volts
Grid No. 1 Voltage (Approx.)		
I _b = 100 μ a	— -5.4	— Volts

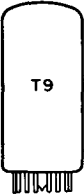
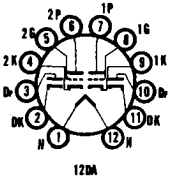
FM STEREO MULTIPLEXER

6AG11

30AG11

Double Diode, Twin Triode

Construction	Compactron T-9
Base	Button 12 Pin, E12-70
Basing	.12DA
Outline	9-56
Maximum Diameter	1.188 In.
Maximum Seated Height	1.500 In.
Maximum Overall Height	1.875 In.



ELECTRICAL DATA

HEATER OPERATION

	30AG11 Series	6AG11 Parallel
Heater Voltage	30	6.3 Volts
Heater Current	150	750 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)

Triode (Each Section)

Grid to Plate	1.8 Pf
Input: g to (h + k)	3.8 Pf
Output: p to (h + k)	0.24 Pf

Diode (Each Section)

Plate to Cathode and Heater	2.2 Pf
Cathode to Plate and Heater	5.5 Pf

Coupling

Triode Grid to Diode Plate (Max.).....	0.1 Pf
No. 1 Triode Grid to No. 2 Triode Grid (Max.)	0.01 Pf
No. 1 Triode Plate to No. 2 Triode Plate.....	0.5 Pf

RATINGS (Design Maximum Rating System)**Triode (Each Section)**

Plate Voltage (Max.)	330 Volts
Plate Dissipation (Max.)	2.0 Watts

Diode (Each Section)

Diode Current (Continuous Operation) (Max.)	5.0 Ma
---	--------

CHARACTERISTICS AND TYPICAL OPERATION**Triode (Each Section)**

Plate Voltage	125 Volts
Grid Voltage	-1.0 Volt
Amplification Factor	66
Plate Resistance.....	8500 Ohms
Transconductance	7800 μ mhos
Plate Current	7.5 Ma
Grid Voltage for $I_b = 30 \mu$ a	-5 Volts

Diode (Each Section)

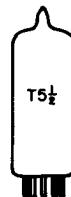
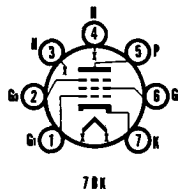
Average Diode Current for $E_b = 5$ Volts	18 Ma
---	-------

6AH6

Color Television Type
RF/IF/AMPLIFIER

Sharp Cutoff Pentode

Construction	Miniature T-5½
Base	Button 7 Pin, E7-1
Basing	.7BK
Outline	5-2
Maximum Diameter	0.750 In.
Maximum Seated Height	1.875 In.
Maximum Overall Height	2.125 In.

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

Heater Voltage.....	6.3 Volts
Heater Current	450 Ma
Maximum Heater-Cathode Voltage	
Heater Negative With Respect to Cathode	
Total DC and Peak.....	100 Volts
Heater Positive With Respect to Cathode	
Total DC and Peak.....	100 Volts

DIRECT INTERELECTRODE CAPACITANCES (Shielded)

Grid No. 1 to Plate (Max.).....	0.02 Pf
Input: g_1 to $(h + k + g_2 + g_3)$	10 Pf
Output: p to $(h + k + g_2 + g_3)$	3.6 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.)	300 Volts
Grid No. 2 Supply Voltage (Max.)	300 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Plate Dissipation (Max.)	3.2 Watts
Grid No. 2 Dissipation (Max.)	0.4 Watt
Cathode Current (Max.).....	13 Ma

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Conn.	Pentode Conn.
Plate Voltage	150	300 Volts
Grid No. 3 Voltage	Connected to Cathode at Socket	
Grid No. 2 Voltage	—	150 Volts
Cathode Bias Resistor	160	160 Ohms
Plate Current	12.5	10 Ma
Grid No. 2 Current	—	2.5 Ma
Transconductance	11,000	9000 μ mhos
Amplification Factor	40	—
Plate Resistance (Approx.)	3600	500K Ohms
E_{c1} for $I_b = 10 \mu$ a (Approx.).....	-7	-7