

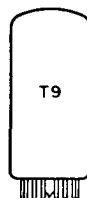
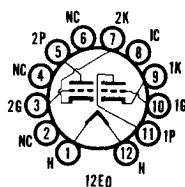
Cathode Current (Max.)	135	135	135	20 Ma
Negative Grid Voltage (Max.)	1	3.1	5	50 Volts
Grid Circuit Resistance (Max.)	11	—	—	1 Megohm
Cathode-Heater Circuit Resistance (Max.)	13,000	625	125	20,000 Ohms
CHARACTERISTICS AND TYPICAL OPERATION				
Plate Voltage	135	135	135	135 Volts
Negative Grid Bias	1	3.1	5	4.5 Volts
Plate Current	11	—	—	0.1 Ma
Transconductance	13,000	625	125	— μ mhos
Amplification Factor	70	—	—	—

VERTICAL DEFLECTION OSCILLATOR and AMPLIFIER

6FY7
11FY7, 15FY7

Double Dissimilar Triode

Construction.....Compactron T-9
Base Button 12 Pin, E12-70
Basing 12EO
Outline 9-60
Maximum Diameter 1.188 In.
Maximum Seated Height 2.500 In.
Maximum Overall Height 2.875 In.



ELECTRICAL DATA HEATER OPERATION

	15FY7	11FY7	6FY7
Heater Voltage	14.7	11.0	6.3 Volts
Heater Current	450	600	1050 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)

	Section 1	Section 2
Grid to Plate: (g to p)	4.4	9.5 Pf
Input: g to (h + k)	2.2	6.5 Pf
Output: p to (h + k)	0.4	1.2 Pf

RATINGS (Design Maximum Rating System)

	Vertical Oscillator Service ⁽¹⁾ (Section 1)	Vertical Deflection Amplifier ⁽¹⁾ (Section 2)
DC Plate Voltage (Max.)	330	275 Volts
Peak Positive Pulse Plate Voltage (Max.)	—	2000 Volts
Peak Negative Grid Voltage (Max.)	400	250 Volts
Plate Dissipation (Max.)	1.0	7.0 ⁽²⁾ Watts
DC Cathode Current (Max.)	20	50 Ma
Peak Cathode Current (Max.)	70	175 Ma
Grid Circuit Resistance (Max.)	2.2	2.2 Megohms

CHARACTERISTICS AND TYPICAL OPERATION

	Section 1 (Oscillator)	Section 2 (Amplifier)
Plate Voltage	250	60
Grid Voltage	-3.0	0 ⁽³⁾
Amplification Factor	65	—
Plate Resistance (Approx.)	40,500	—
Transconductance	1600	—
Plate Current	1.4	95
Plate Current (Approx.) $E_c = -25$ Volts	—	—
Grid Voltage (Approx.) $I_b = 30 \mu a$	-5.5	—
Grid Voltage (Approx.) $I_b = 50 \mu a$	—	—

NOTES:

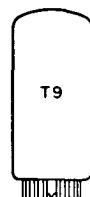
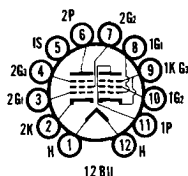
- (1) For operation in a 525 line, 30 frame system as described in "Standards of Good Engineering Practice for Television Broadcast Stations; Federal Communications Commission," the duty cycle of the voltage pulse must not exceed 15% of one horizontal scanning cycle.
- (2) In stages operating with grid-leak bias, an adequate cathode-bias resistor or other suitable means is required to protect the tube in the absence of excitation.
- (3) Applied for short interval (two seconds maximum) so as not to damage tube.

6G11

12G11

**FM DETECTOR
AUDIO POWER AMPLIFIER****Double Dissimilar Pentode**

Construction.....Compactron T-9
 Base Button 12 Pin, E12-70
 Basing 12BU
 Outline 9-58
 Maximum Diameter 1.188 In.
 Maximum Seated Height 2.000 In.
 Maximum Overall Height 2.375 In.

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

	12G11	6G11
Heater Voltage.....	12.6	6.3 Volts
Heater Current	600	1200 Ma
Heater Warm-up Time	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)**Section 1**

Grid No. 1 to Plate	0.26 Pf
Input: 1g1 to (h + 1k + 1g2 + bp + IS)	12 Pf
Output: 1p to (h + 1k + 1g2 + bp + IS)	12 Pf

Section 2

Grid No. 1 to Plate	0.034 Pf
Grid No. 3 to Plate	2.8 Pf
Grid No. 1 to All Except Plate: 2g1 to (h + 2k + 2g2 + 2g3 + IS)	6.5 Pf
Grid No. 3 to All: 2g3 to (h + 2k + 2g1 + 2g2 + 2p + IS).....	7.5 Pf
Grid No. 1 to Grid No. 3	0.24 Pf
Plate, Section 1 to Plate, Section 2.....	0.12 Pf

RATINGS (Design Maximum Rating System)**Section 1**

Plate Voltage	150 Volts
Screen Voltage.....	135 Volts
Plate Dissipation	6.5 Watts
Screen Dissipation.....	1.8 Watts
DC Cathode Current	65 Ma

Section 2

Plate Voltage	330 Volts
Suppressor Voltage	28 Volts
Screen Supply Voltage	330 Volts
Screen Voltage	See Rating Chart (Gen. Info. Sec.)
Positive DC Grid No. 1 Voltage	0 Volt
Plate Dissipation	1.7 Watts
Screen Dissipation.....	1.1 Watts

CHARACTERISTICS AND TYPICAL OPERATION**Section 1****Class A1 Amplifier**

Plate Voltage	120 Volts
Screen Voltage.....	110 Volts
Grid No. 1 Voltage	-8.0 Volts
Peak AF Grid No. 1 Voltage	8.0 Volts
Plate Resistance (Approx.)	10,000 Ohms
Transconductance	7500 μ mhos
Zero Signal Plate Current.....	49 Ma
Maximum Signal Plate Current	50 Ma
Zero Signal Screen Current	4.0 Ma
Maximum Signal Screen Current	8.5 Ma
Load Resistance	2500 Ohms
Total Harmonic Distortion (Approx.)	10 Percent
Maximum Signal Power Output	2.3 Watts