

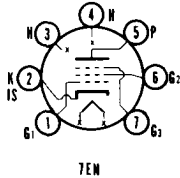
Color Television Type
FM DETECTOR

6HZ6

5HZ6

Sharp Cutoff Pentode

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



ELECTRICAL DATA
HEATER OPERATION

	5HZ6	6HZ6
Heater Voltage.....	4.75	6.3 Volts
Heater Current	600	450 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 (Max.)	0.023 Pf
Grid No. 3 to Plate	1.6 Pf
Input: g1 to (h + k + g2 + g3 + IS)	8.2 Pf
Input: g3 to (h + k + g1 + g2 + p + IS).....	7.2 Pf
Grid No. 1 to Grid No. 3	0.09 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage (Max.)	300 Volts
Positive Grid No. 3 Voltage (DC and Peak) (Max.)	25 Volts
Negative Grid No. 3 Voltage (DC and Peak) (Max.).....	100 Volts
Grid No. 2 Supply Voltage (Max.)	300 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)
Positive Grid No. 1 Voltage (Max.)	0 Volt
Negative Grid No. 1 Voltage (Max.)	50 Volts
Plate Dissipation (Max.)	1.7 Watts
Grid No. 3 Input (Max.)	0.1 Watt
Grid No. 2 Input (Ec2 up to 150 V) (Max.).....	1.0 Watt
Grid No. 2 Input (Ec2 Between 150 V to 300 V)	See Rating Chart (Gen. Info. Sec.)
Grid No. 3 Circuit Resistance (Max.)	0.68 Megohm
Grid No. 1 Circuit Resistance	
Fixed Bias (Max.)	0.22 Megohm
Self Bias (Max.)	0.47 Megohm

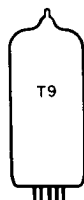
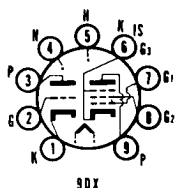
CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

Plate Voltage	150 Volts
Grid No. 3 Voltage	0 Volt
Grid No. 2 Voltage	100 Volts
Cathode Resistor	180 Ohms
Plate Current	3.2 Ma
Grid No. 2 Current	3.2 Ma
Grid No. 1 Transconductance	3400 μmhos
Grid No. 3 Transconductance	600 μmhos
Plate Resistance (Approx.)	0.11 Megohm
Ec1 for Ib = 20 μa (Approx.).....	-4.5 Volts
Ec3 for Ib = 20 μa (Approx.).....	-7 Volts

6HZ8**SYNC/VOLTAGE AMPLIFIER (T)
VIDEO AMPLIFIER (P)****High Mu Triode and
Sharp Cutoff Pentode**

Construction	9T-9
Base	Button 9 Pin
Basing	.9DX
Outline	
Maximum Diameter	1.188 In.
Maximum Seated Height	2.770 In.
Maximum Overall Height	3.080 In.

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

Heater Voltage	6.3 Volts
Heater Current	1125 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 Section**

Grid to Plate	5.0 Pf
Input: g to (h + Tk)	3.8 Pf
Output: p to (h + Tk)	0.4 Pf

Pentode Section

Grid No. 1 to Plate (Max.)	0.1 Pf
Input: g1 to (h + Pk, g3, IS + g2)	12 Pf
Output: p to (h + Pk, g3, IS + g2)	5.0 Pf

Coupling

Pentode Grid No. 1 to Triode Plate (Max.)	0.005 Pf
Triode Grid to Pentode Plate (Max.)	0.04 Pf
Pentode Plate to Triode Plate (Max.)	0.20 Pf

RATINGS (Design Maximum Rating System)

	Triode Section	Pentode Section
Plate Voltage (Max.)	300	330 Volts
Grid No. 2 Voltage	See Rating Chart (Gen. Info. Sec.)	
Grid No. 2 Supply Voltage (Max.)	—	330 Volts
Plate Dissipation (Max.)	1.0	8.0 Watts
Grid No. 2 Dissipation (Max.)	—	2.0 Watts
Positive Grid No. 1 Voltage (Max.)	0	0 Volt
Grid Circuit Resistance		
Self Bias (Max.)	1.0	1.0 Megohm
Fixed Bias (Max.)	0.5	0.25 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Section	Pentode Section
Plate Voltage	200	250 Volts
Grid No. 2 Voltage	—	170 Volts
Grid No. 1 Voltage	-2	— Volts
Cathode Resistor	—	100 Ohms
Plate Current	3.5	29 Ma
Grid No. 2 Current	—	6 Ma
Transconductance	4000	12,600 μ mhos
Amplification Factor	70	—
Plate Resistance (Approx.)	—	14,000 Ohms
Ec for Ib = 10 μ a (Approx.)	-5.0	-11.5 Volts

INSTANTANEOUS PLATE KNEE VALUES (Pentode Section)

Eb = 60 V; Ec2 = 170 V; and Ec1 = 0 V
Ib = 90 Ma (Approx.) and Ic2 = 22.5 Ma (Approx.)