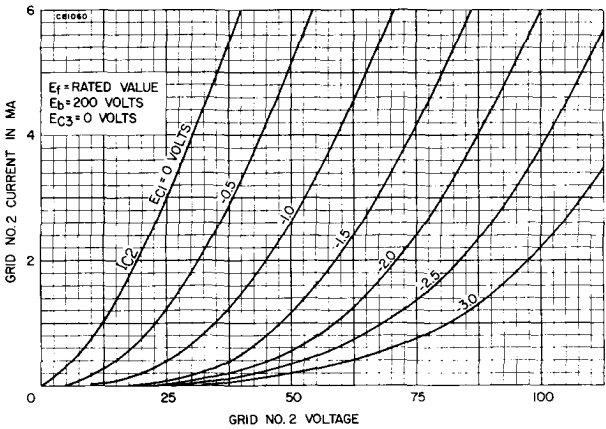


AVERAGE PLATE CHARACTERISTICS

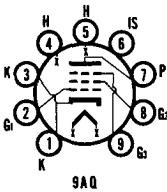


Color Television Type
IF AMPLIFIER

6EJ7/EF184
3EJ7/XF184, 4EJ7

Sharp Cutoff Pentode

Construction Miniature T-6½
Base Button 9 Pin, E9-1
Basing 9AQ
Outline
Maximum Diameter 0.875 In.
Maximum Seated Height 2.156 In.
Maximum Overall Height 2.406 In.



ELECTRICAL DATA
HEATER OPERATION

	3EJ7/XF184	4EJ7	6EJ7/EF184
Heater Voltage.....	3.4	4.4	6.3 Volts
Heater Current.....	600	450	300 Ma
Heater Warm-up Time	11	11	— Seconds
Maximum Heater-Cathode Voltage			
Heater Negative with Respect to Cathode			
Total DC and Peak.....			150 Volts
Heater Positive with Respect to Cathode			
Total DC and Peak.....			150 Volts

DIRECT INTERELECTRODE CAPACITANCES (Unshielded)

Grid No. 1 to Plate (Max.).....	0.005 Pf
Input: g1 to (h + k + g2 + g3 + IS).....	10 Pf
Output: p to (h + k + g2 + g3 + IS).....	3 Pf

RATINGS (Design Maximum Rating System)

Plate Voltage with Ib = 0 Ma (Max.)	550 Volts
Plate Voltage (Max.).....	275 Volts
Grid No. 2 Voltage with Ic2 = 0 Ma (Max.)	550 Volts
Grid No. 2 Voltage (Max.)	275 Volts
Plate Dissipation (Max.)	2.8 Watts
Grid No. 2 Dissipation (Max.)	1.0 Watt
Cathode Current (Max.)	27 Ma
Grid No. 1 Circuit Resistance (Max.)	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

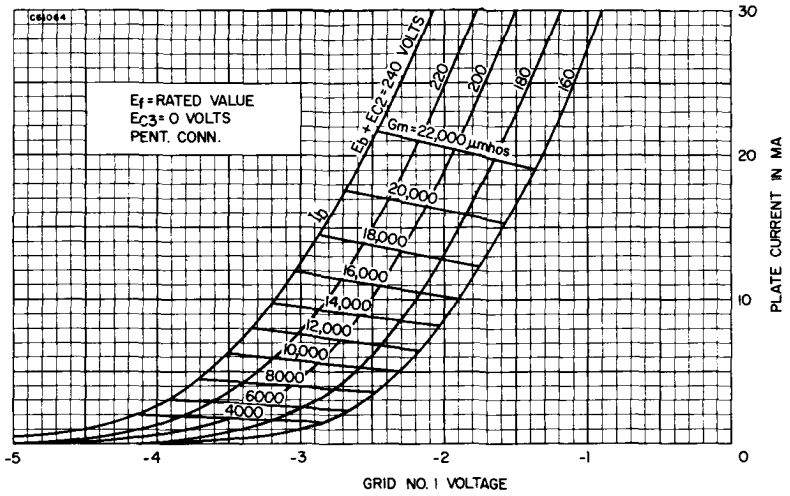
Class A1 Amplifier

Plate Voltage	200 Volts
Grid No. 3 Voltage	0 Volt

Grid No. 2 Voltage	200 Volts
Grid No. 1 Voltage	-2.5 Volts
Plate Current	10 Ma
Grid No. 2 Current	4.1 Ma
Transconductance	15,000 μ mhos
Amplification Factor (G2 to G1)	60
Plate Resistance (Approx.)	0.35 Megohm
Grid No. 1 Impedance at 40 MHz ⁽¹⁾	30,000 Ohms

NOTE:
(1) Input damping of tube and typical ceramic socket with both cathode leads tied directly to ground is about 10,000 Ohms.

AVERAGE TRANSFER CHARACTERISTICS



6EM5

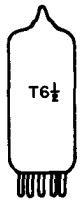
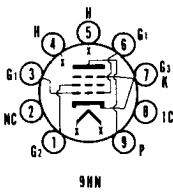
8EM5

VERTICAL DEFLECTION

AMPLIFIER

Beam Power Pentode

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	.9HN
Outline	6-4
Maximum Diameter	0.875 In.
Maximum Seated Height	2.812 In.
Maximum Overall Height	3.062 In.



ELECTRICAL DATA
HEATER OPERATION

Heater Voltage	8EM5	8.4	6EM5	6.3 Volts
Heater Current	600		800 Ma	
Heater Warm-up Time	11		— Seconds	
Maximum Heater-Cathode Voltage				
Heater Negative with Respect to Cathode				200 Volts
Total DC and Peak				
Heater Positive with Respect to Cathode				100 Volts
DC				200 Volts
Total DC and Peak				
DIRECT INTERELECTRODE CAPACITANCES (Unshielded)				
Grid No. 1 to Plate (Max.)				0.7 Pf
Input: g1 to (h + k + g2 + g3)				10 Pf
Output: p to (h + k + g2 + g3)				5.1 Pf