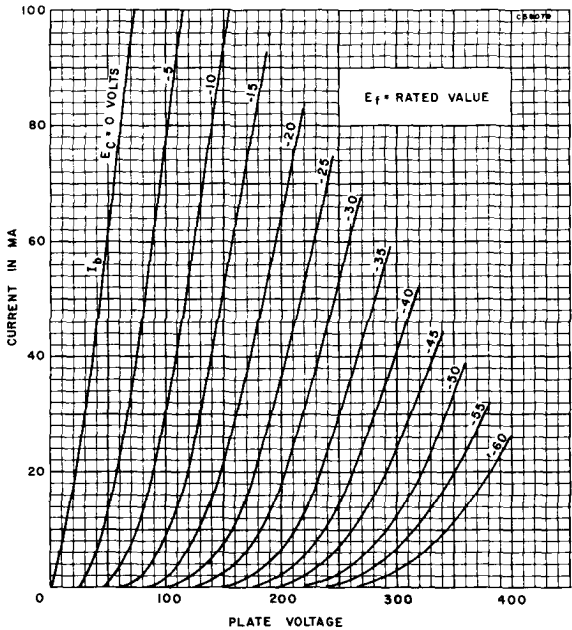


AVERAGE PLATE CHARACTERISTICS
(Section No. 2)



6DS4

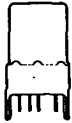
2DS4

Color Television Type

VHF AMPLIFIER

High Mu Triode

Construction Nuvisor, Metal
Base..Ceramic Wafer Twelvvar 5 Pin, E5-65
Basing 12AQ
Outline
Maximum Diameter 0.440 In.
Maximum Seated Height 0.625 In.
Maximum Overall Height 0.800 In.



ELECTRICAL DATA
HEATER OPERATION

Heater Voltage.....	2DS4 2.1	6DS4 6.3 Volts
Heater Current	450	135 Ma
Heater Warm-up Time	8	— Seconds
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

Grid to Plate	0.92 Pf
Input: g to (h + Shell)	4.3 Pf
Output: p to (h + k + Shell)	1.8 Pf
Heater to Cathode	1.6 Pf
Plate to Cathode	0.18 Pf

RATINGS (Design Maximum Rating System)

Plate Supply Voltage (Max.)	300 Volts
Plate Voltage (Max.)	135 Volts

Plate Dissipation (Max.)	1 Watt
DC Cathode Current (Max.)	15 Ma
Negative Grid Voltage (Max.)	55 Volts
Positive Grid Voltage (Max.)	0 Volt
Grid Circuit Resistance	
Fixed Bias (Max.)	0.5 Megohm
Self Bias (Max.)	2.2 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Class A1 Amplifier

Plate Voltage	70	110 Volts
Grid Resistor	47,000	— Ohms
Cathode Resistor	—	130 Ohms
Plate Current	7	6.5 Ma
Transconductance	12,500	9000 μ mhos
Amplification Factor	68	63
Plate Resistance (Approx.)	5440	7000 Ohms
Ec for Ib = 100 μ a (Approx.)	—	-5 Volts
Ec for Ib = 10 μ a (Approx.)	—	-6.8 Volts

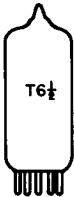
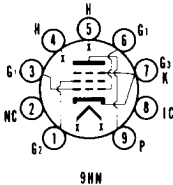
**VERTICAL DEFLECTION
AMPLIFIER**

6DT5

12DT5, 25DT5

Beam Power Pentode

Construction	Miniature T-6½
Base	Button 9 Pin, E9-1
Basing	9HN
Outline	6-3
Maximum Diameter	0.875 In.
Maximum Seated Height	2.375 In.
Maximum Overall Height	2.625 In.



ELECTRICAL DATA

HEATER OPERATION

	25DT5	12DT5	6DT5
Heater Voltage	25	12.6	6.3 Volts
Heater Current	300	600	1200 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	0.57 Pf
Input: g1 to (h + k)	12.5 Pf
Output: p to (h + k)	4.9 Pf

RATINGS (Design Maximum Rating System)

Vertical Deflection Amplifier⁽¹⁾

Plate Voltage (Max.)	315 Volts
Grid No. 2 Voltage (Max.)	285 Volts
Peak Positive Pulse Plate Voltage (Abs. Max.)	2200 Volts
Peak Negative Pulse Grid Voltage (Max.)	250 Volts
Plate Dissipation (Max.) ⁽²⁾	9.0 Watts
Grid No. 2 Dissipation (Max.) ⁽²⁾	2.0 Watts
Average Cathode Current (Max.)	55 Ma
Peak Cathode Current (Max.)	190 Ma
Grid Circuit Resistance	
Fixed Bias (Max.)	0.5 Megohm
Cathode Bias (Max.)	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

Plate Voltage	250 Volts
Grid No. 2 Voltage	250 Volts
Grid No. 1 Voltage	-16.5 Volts
Plate Current	38 Ma
Grid No. 2 Current	2.0 Ma
Transconductance	6200 μ mhos
Ec1 for Ib = 100 μ a (Approx.)	-35 Volts