

6CZ5**5CZ5**

Color Television Type

**AUDIO POWER AMP.
or VERTICAL DEFLECTION AMP.****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**

	5CZ5	6CZ5
Heater Voltage.....	4.7	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

Grid No. 1 to Plate (Max.).....	0.4 Pf
Input: g ₁ to (k + h + g ₃ + g ₂)	9.0 Pf
Output: p to (k + h + g ₃ + g ₂)	6.0 Pf

RATINGS (Design Maximum Rating System)

	Vertical Deflection Amp.	Class A1 Power Amp.
DC Plate Voltage (Max.)	350	350 Volts
Peak Positive Plate Voltage (Abs. Max.)	2200 ⁽²⁾	— Volts
DC Grid No. 2 Voltage (Max.)	315	285 Volts
Peak Negative Grid No. 1 Voltage (Max.)	275	— Volts
Plate Dissipation (Max.) ⁽¹⁾	10	12 Watts
Grid No. 2 Input (Max.)	2	2 Watts
Average Cathode Current (Max.).....	45	— Ma
Peak Cathode Current (Max.)	155	— Ma
Grid No. 1 Circuit Resistance		
Fixed Bias (Max.).....	0.5	0.1 Megohm
Cathode Bias (Max.)	1	1 Megohm
Bulb Temperature (At Hottest Point) (Max.)	250	250 °C

CHARACTERISTICS AND TYPICAL OPERATION**AF Power Amplifier**

	Single Tube Class A1	Push Pull Class AB1
Plate Voltage	250	350 Volts
Grid No. 2 Voltage	250	280 Volts
Grid No. 1 Voltage	-14	-23.5 Volts
Peak AF Grid No. 1 Voltage	13	— Volts
Peak AF Grid to Grid Voltage ^(3,4)	—	47 Volts
Zero Signal Plate Current	46	46 Ma
Maximum Signal Plate Current	48	103 Ma
Zero Signal Grid No. 2 Current	4.6	3 Ma
Maximum Signal Grid No. 2 Current	8	13 Ma
Transconductance	4800	— μmhos
Load Resistance	5000	— Ohms
Load Resistance (Plate to Plate)	—	7500 Ohms
Power Output	5.4	21.5 Watts
Total Harmonic Distortion	10	1 Percent

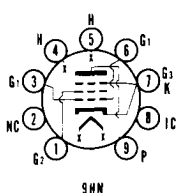
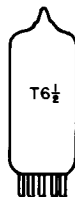
INSTANTANEOUS PLATE KNEE VALUES

Eb = 70 V, Ec2 = 250 V, Ec1 = 0 V

Ib = 130 Ma, Ic2 = 16 Ma

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 pulse must not exceed 15% of one horizontal scanning cycle.
- (2) Under no circumstances should this absolute value be exceeded.
- (3) No Grid No. 1 Current should flow during any part of the input cycle.
- (4) Low resistance is required by the Grid No. 1 Circuit such as transformer or impedance coupling devices.



OSCILLATOR, MIXER
AMPLIFIER or AFC

6D10

High Mu Triple Triode

Construction.....Compactron T-9
BaseButton 12 Pin, E12-70
Basing12BQ
Outline9-56
Maximum Diameter1.188 In.
Maximum Seated Height1.500 In.
Maximum Overall Height1.875 In.

