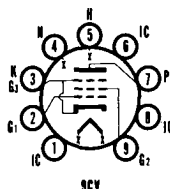


6BQ5/EL84**8BQ5, 10BQ5**

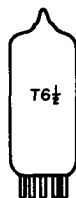
Color Television Type

AUDIO POWER AMPLIFIER**Beam Pentode**

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



9CV



T6½

**ELECTRICAL DATA
HEATER OPERATION**

	10BQ5	8BQ5	6BQ5/EL84
Heater Voltage.....	10.6	8.0	6.3 Volts
Heater Current.....	450	600	760 Ma
Heater Warm-up Time.....	11	11	— Seconds
Maximum Heater Cathode Voltage.....			100 Volts

DIRECT INTERELECTRODE CAPACITANCES

Grid No. 1 to Plate (Max.).....	0.5 Pf
Input.....	10.8 Pf
Output.....	6.5 Pf
Grid No. 1 to Heater (Max.).....	0.25 Pf

RATINGS (Design Center Rating System)

Plate Voltage (Max.) ⁽¹⁾	300 Volts
Grid No. 2 Voltage (Max.) ⁽¹⁾	300 Volts
Negative Grid No. 1 Voltage (Max.).....	100 Volts
Plate Dissipation (Max.).....	12 Watts
Grid No. 2 Dissipation (Max.).....	2 Watts
Cathode Current.....	65 Ma
Grid No. 1 Circuit Resistance.....	
Fixed Bias (Max.).....	0.3 Megohm
Cathode Bias (Max.).....	1.0 Megohm

CHARACTERISTICS AND TYPICAL OPERATION

	Triode Operation ⁽²⁾		Pentode Operation	
	Class A1 Single Tube	Class AB1 Push-pull	Class A1 Single Tube	Class AB1 Push-pull
Plate Voltage.....	250	250 300	250	250 300
Grid No. 2 Voltage.....	—	—	250	250 300
Grid No. 1 Voltage.....	—	—	-7.3	— Volts
Cathode Resistor ⁽³⁾	270	270 270	135	130 130 Ohms
Grid Voltage (RMS) ⁽⁴⁾	6.7	8.4 10	4.3	8 10 Volts
Plate Current				
(Zero-Signal).....	34	40 48	48	62 72 Ma
(Maximum Signal).....	36	53.4 52	49.5	75 92 Ma
Grid No. 2 Current				
(Zero Signal).....	—	—	5.5	7.0 8 Ma
(Maximum Signal).....	—	—	10.8	15 22 Ma
Transconductance.....	—	—	11.3K	— μmhos
Amplification Factor ⁽¹⁾	—	—	19	—
Plate Resistance.....	—	—	38K	— Ohms
Load Resistance.....	3.5K	—	5.2K	— Ohms
Load Resistance				
(Plate to Plate).....	—	10K 10K	—	8K 8K Ohms
Maximum-Signal Power Output..	1.95	3.4 5.2	5.7	11 17 Watts
Total Harmonic Distortion ⁽¹⁾ ...	9	2.5 2.5	10	3.0 4.0 Percent

CLASS AB1 ULTRA-LINEAR CONNECTION⁽⁵⁾

Plate Voltage.....	300 Volts
Cathode Resistor (Per Tube).....	270 Ohms
Grid Voltage (RMS).....	8 Volts
Cathode Current (Zero Signal).....	80 Ma
Cathode Current (Max. Signal).....	90 Ma
Load Resistance (P1 to P1).....	8000 Ohms
Power Output.....	11 Watts

NOTES:

- (1) When the heater and positive voltages are obtained from a storage battery by means of a vibrator, the maximum values of the plate and Grid No. 2 voltage is 250 volts and the plate dissipation is 9 watts.