

POWER PENTODE TYPE 35EH5

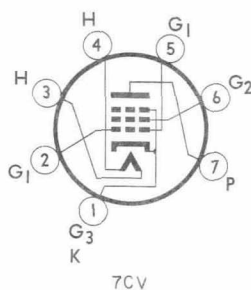
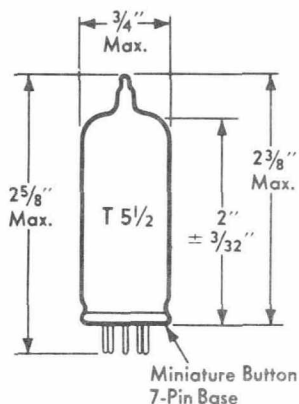
The 35EH5 is a 7-pin miniature power pentode type designed for service as audio output tube in radio and television receivers and audio amplifiers in record players and tape recorders. The outstanding feature of this type is high power sensitivity permitting very low drive voltage.

ELECTRICAL:

Cathode.....	Coated Unipotential
Heater:	
Voltage (ac or dc)	35 Volts
Current	0.15 Ampere
Direct Interelectrode Capacitances (Unshielded):	
Grid 1 to Plate	0.65 $\mu\mu\text{f}$
Input	17 $\mu\mu\text{f}$
Output	9 $\mu\mu\text{f}$

MECHANICAL:

Bulb	T-5½
Base	7-Pin Miniature (JEDEC E7-1)
Outline	5-3
Basing	7CV
Mounting Position	Any



MAXIMUM RATINGS

Design Maximum Values

Plate Voltage	150 max.	Volts
Grid 2 Voltage (Screen)	130 max.	Volts
Grid 1 Positive Voltage	0 max.	Volts
Plate Dissipation	5 max.	Watts
Grid 2 Dissipation	1.75 max.	Watts
Bulb Temperature □	220 max.	°C

Grid 1 Circuit Resistance:

Fixed Bias	0.1 max.	Megohms
Cathode-Resistor Bias	0.5 max.	Megohms

Heater-Cathode Voltage:

Heater Negative with Respect to Cathode:		
Total DC + Peak	200 max.	Volts
Heater Positive with Respect to Cathode:		
DC Component	100 max.	Volts
Total DC + Peak	200 max.	Volts

TYPICAL OPERATING CHARACTERISTICS:

Plate Voltage	110	Volts
Grid 2 Voltage	115	Volts
Cathode Bias Resistor	62	Ohms
Peak AF-Signal Grid 1 Voltage	3	Volts
Zero-Signal Plate Current	32	Ma.
Max.-Signal Plate Current	32	Ma.
Zero-Signal Grid 2 Current (Screen)	7.2	Ma.
Max.-Signal Grid 2 Current (Screen)	12	Ma.
Plate Resistance (Approx.)	14000	Ohms
Transconductance	12000	μmhos
Load Resistance	3000	Ohms
Power Output	1.2	Watts
Total Harmonic Distortion	8	Per Cent

NOTE

- High ambient temperature and shielding may necessitate a reduction in operating dissipation. When tube shields are used, it is advisable to paint both inside and outside surfaces of the tube shield a dull black and to provide ventilation slots to reduce operating temperature.

