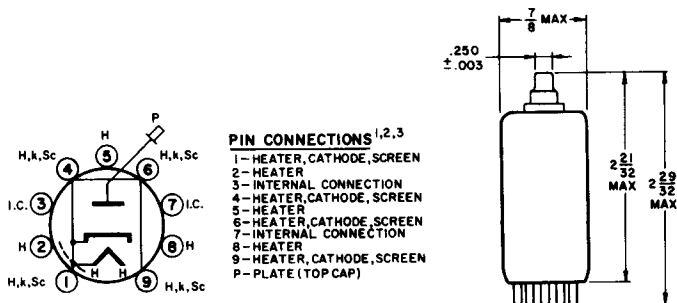


AMPEREX TUBE TYPE IBQ2

This tube is a high-vacuum single-anode rectifier for high tension in television receivers (EHT supply from the line time base). It has a chemically treated envelope which avoids flash-over under conditions of high humidity and low atmospheric pressure.



GENERAL CHARACTERISTICS

Mechanical

Dimensions
Bulb
Base
Cap
Mounting Position

see outline drawing
T 6-1/2, glass
E9-1, noval
C1-2
any

Electrical

Heater Characteristics
Heater Arrangement
Heater Voltage (AC or DC)⁴
Heater Current
Direct Interelectrode Capacitance
Plate to All

parallel supply
1.4 volts ±10%
0.6 amps
1.0 pf

¹ Pins 1, 4, 6 and 9 can be used for fixing an anti-corona ring.

² Circuit elements having the same potential as the heater (e.g. a series resistor) may be connected to pins 3 and 7. These pins must never be grounded.

³ If the tube operates at high inverse plate voltages and/or under conditions of high relative humidity or low pressure the metal cap should get an insulating cover to avoid corona phenomena.

⁴ For use as EHT rectifier in television receivers the heater voltage should be adjusted to its nominal value at a D.C. output current of 200 μ a. At an increase of the D.C. output current to 400 - 800 μ a which may occur during operation, the decrease of the heater voltage may amount to 15% maximum.

These requirements hold for nominal voltage and full horizontal scanning of the picture tube. If the picture width control is such that also the heater voltage of the E.H.T. diode is influenced, the influence of this control must be kept within the 15% limit indicated above.

IBQ2

Operating Characteristics

Output Current	I_o	200 μ A
Output Voltage	V_o	20 KV

Maximum Ratings, Design Center Values

Plate Inverse Voltage ⁵	20,000 volts
Peak Plate Inverse Voltage ⁶	25,000 volts
Average Output Current ⁷	500 μ a
Peak Output Current	50 ma
Filter Input Capacitance	3,000 pf

⁵D.C. component

⁶Max. pulse duration 22% of a cycle, but max. 18 microseconds. The absolute maximum value = 30,000 volts.

⁷During short periods as in TV operation I_p = max. 800 microamps.