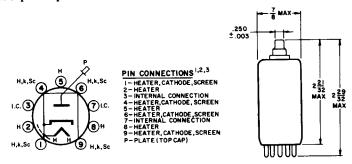
## AMPEREX TUBE TYPE IBQ2

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	see outline drawing		
Bulb	T $6-1/2$ , glass		
Base	E9-1, noval		
Cap	C1-2		
Mounting Position	any		

#### Electrical

parallel supply
1.4 volts ±10%
0.6 amps
1.0 pf

<sup>&</sup>lt;sup>1</sup>Pins 1, 4, 6 and 9 can be used for fixing an anti-corona ring.

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.

<sup>&</sup>lt;sup>2</sup>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.

<sup>&</sup>lt;sup>3</sup>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.

 $<sup>^4</sup>$ 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  $\mu$ a. At an increase of the D.C. output current to 400 - 800  $\mu$ a which may occur during operation, the decrease of the heater voltage may amount to 15% maximum.

# IBQ2

### Operating Characteristics

**Output Current** 

Output Voltage

0 m.p. 1 0 m.p. 1	.0	
Maximum Ratings, Design Center Values		
Plate Inverse Voltage <sup>5</sup> Peak Plate Inverse Voltage <sup>6</sup>		20, 000 volts 25, 000 volts

Io V 200 μA

20 KV

Plate Inverse Voltage<sup>5</sup> 20,000 volts Peak Plate Inverse Voltage<sup>6</sup> 25,000 volts Average Output Current<sup>7</sup> 500  $\mu$ a Peak Output Current 50 ma Filter Input Capacitance 3,000 pf

<sup>&</sup>lt;sup>5</sup>D.C. component

<sup>&</sup>lt;sup>6</sup>Max. pulse duration 22% of a cycle, but max. 18 microseconds. The absolute maximum value = 30,000 volts.

 $<sup>^{7}</sup>$ During short periods as in TV operation  $I_{b}$  = max. 800 microamps.