

# **AMPEREX ELECTRONIC CORPORATION**

230 DUFFY AVENUE

HICKSVILLE, L. I.

# TENTATIVE DATA

# AMPEREX TYPE 6268/AX-9911

The 6268/AX-9911 is a three electrode, hydrogen filled thyratron with a self-contained and self-regulating source of hydrogen. This tube has a positive control characteristic and is designed for long-life pulse modulator applications. The life expectancy of this tube is over 1000 hours. IT IS COMPLETELY INTERCHANGEABLE IN EVERY RESPECT WITH THE STANDARD TYPE 4C35 TUBE.

# GENERAL CHARACTERISTICS

#### ELECTRICAL

	MIN.	BOGEY	MAX.	
Heater Voltage	5.8	6.30	6.60	volts
Neater Current (at 6.3 volts)	5.50	6.10	6.70	amps
Cathode Heating Time Required	180	<del></del>	<del></del>	sec.
Tube Brop (egk)			150	volts
Trigger Voltage (Source Unloaded)	130			volts
Trigger Rise Time			Q.5	microsec.
Trigger Source Impedance			1500	ohms
Trigger Width (70.7%)	2.0			microsec.
D.C. Anode Striking Voltage at				
130 volts Peak Trigger Voltage			1500	volts
Anode Delay Time (From 26% of				
Trigger Pulse to start of Current				
Pulse)			0.6	microsec.
Anode Delay Time Drift			0.15	microsec.
Time Jitter			0.02	microsec.

#### MECHANICAL

Dimensions
Length
Diameter

Diameter

Mounting Position
Cooling
Clamping

Weight (approx.)

6 5/8 inches
a 1/2 inches
any
7 inches
any
7 ounces

#### Notes:

- Cooling of the anode lead is permissible, but there shall be no air blast directly on the bulb.
- 2. Clamping is permissible at the base and/or the bulb in the area up to 2 1/2 inches above the top of the base only.

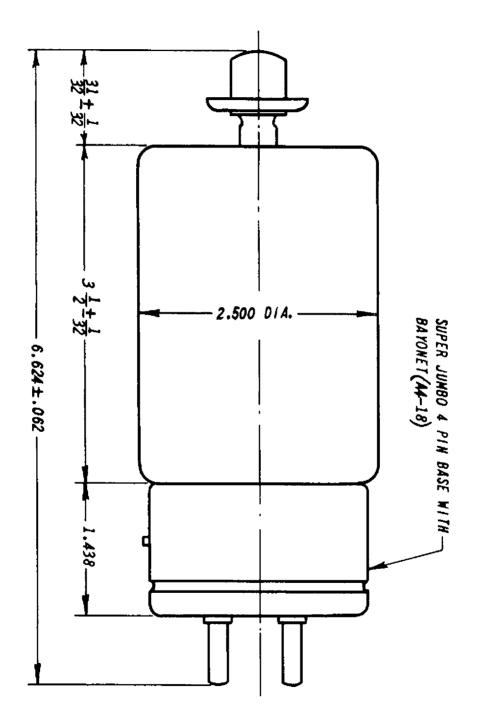
# MAXIMUM RATINGS

# ABSOLUTE VALUES

Max. Peak Anode Voltage	<b>*</b>		
Inverse	8.0 KV**		
Forward	8.0 KYTT		
Max. Cathode Current			
Peak	90 amps		
Average	100 ma		
Hax. Value of (Forward Voltage)X			
(Pulse Repitition Rate)X			
(Peak Current)	2.0 × 10 <sup>9</sup>		
Max. Rate of Rise of Cathode			
Current	1000 amps/microsec.		
Max. Trigger Source Impedance	1500 ohms		
Max. Trigger Rise Time (26%-70.7%)	0.5 microsec.		
Max. Inverse Grid Voltage	2000 volts		
Ambient Temperature Limits	-550 C to + 900 C		

For instantaneous starting applications where plate voltage is applied instantaneously, the maximum permissible forward voltage is 7000 volts and shall not be attained in less than 0.04 seconds.

In pulsed operation, the peak inverse voltage, exclusive of spike of 0.05 microsecond maximum duration, shall not exceed 2.5 KV during the first 25 microseconds after the pulse.



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