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AMPEREX ELECTRONIC CORPORATION
230 DUFFY AVENUE HICKSVILLE, L. I.

TENTATIVE DATA

AMPEREX TYPE 6279/AX-9912

The 6279/AX-9912 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 5C22 TUBE.

GENERAL CHARACTERISTICS

ELECTRICAL

	MIN.	BOGEY	MAX.	
Heater Voltage	5.83	6.30	6.77	volts
Heater Current (at 6.3 volts)	9.6	——	11.6	amps
Cathode Heating Time Required	300	——	——	sec.
Tube Drop (egk)	——	——	175	volts
Trigger Voltage (Source Unloaded)	200	——	——	volts
Trigger Rise Time	——	——	0.5	microsec.
Trigger Source Impedance	——	——	500	ohms
Trigger Width (70.7%)	2.0	——	——	microsec.
D.C. Anode Striking Voltage at 150 V. Peak Trigger Voltage	——	——	2500	volts
Anode Delay Time (From 26% of Trigger Pulse to start of Current Pulse)	——	——	1.0	microsec.
Anode Delay Time Drift	——	——	0.15	microsec.
Time Jitter	——	——	0.02	microsec.

MECHANICAL

Dimensions	
Length	8 1/2 inches
Diameter	2 1/2 inches
Mounting Position	any
Cooling	see note 1
Clamping	see note 2
Weight (approx.)	9 1/2 ounces

Notes:
1. 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 4 1/4 inches above the top of the base only.

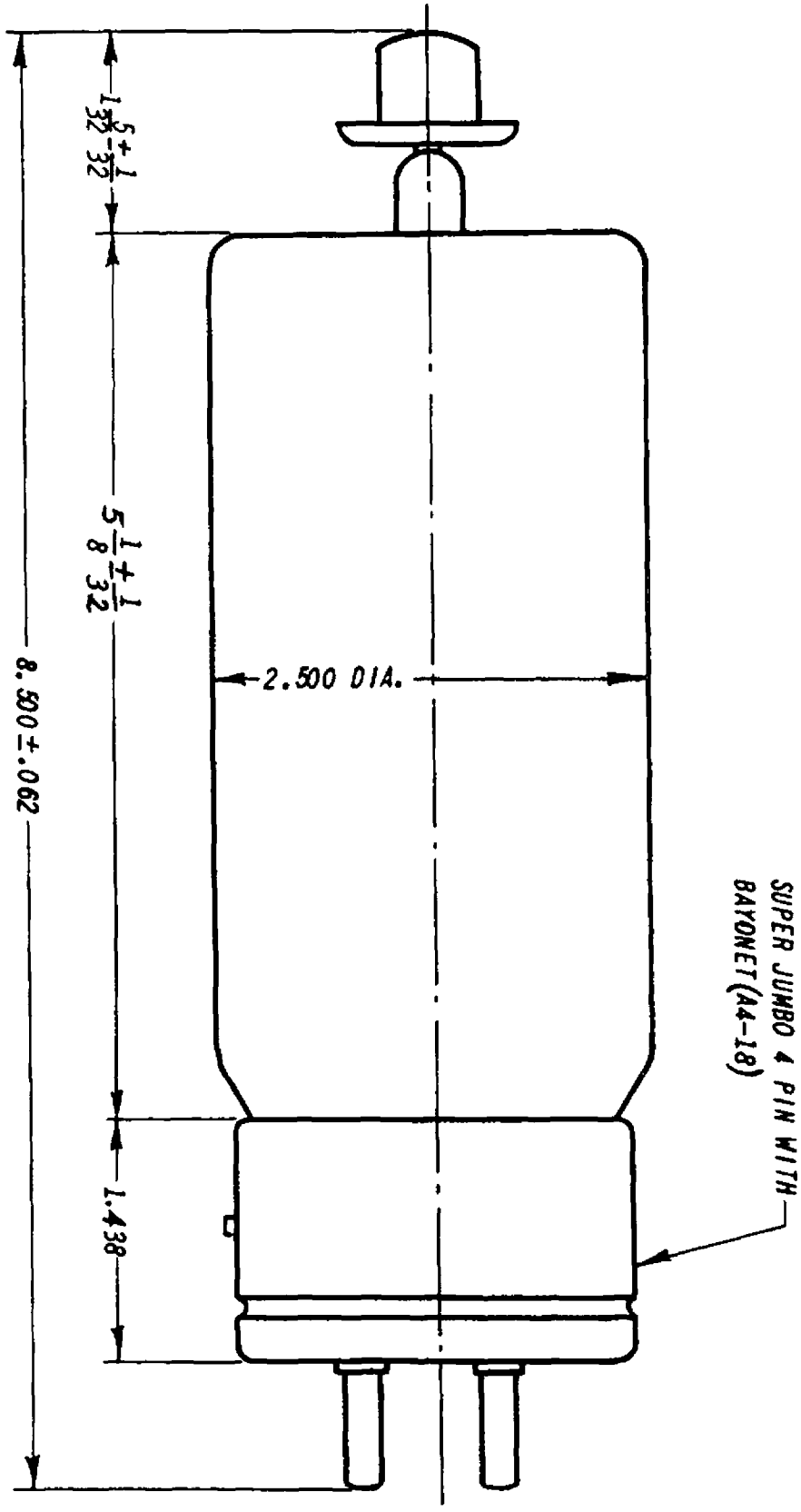
MAXIMUM RATINGS

ABSOLUTE VALUES

Max. Peak Anode Voltage		
Inverse	16.0	KV*
Forward	16.0	KV**
Max. Cathode Current		
Peak	325	amps
Average	200	ma
Max. Value of (Forward Voltage)X (Pulse Repitition Rate)X (Peak Current)	3.2×10^9	
Max. Rate of Rise of Cathode Current	1500	amps/microsec.
Max. Trigger Source Impedance	500	ohms
Max. Trigger Rise Time	0.5	microsec.
Max. Inverse Grid Voltage	200	volts
Ambient Temperature Limits	-50° C to + 90° C	

* For instantaneous starting applications where plate voltage is applied instantaneously, the maximum permissible epy is 13.5 KV and shall not be attained in less than 0.04 seconds.

** In pulsed operation, the peak inverse voltage, exclusive of a spike of 0.05 microsecond maximum duration, shall not exceed 5.0 KV during the first 25 microseconds after the pulse.


1 5/32 +1/32 -32
5 1/8 +1/32
8.500 ±.062
2.500 DIA.
1.438
SUPER JUMBO 4 PIN WITH
BAYONET (A4-18)