



XENON FILLED RECTIFIER

AX228

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Service Type CV2399

INTRODUCTION

The AX228 is a hot cathode, Xenon filled Rectifier with maximum ratings of 13kV peak inverse voltage and 6A peak current. The AX228 may be used as a ← replacement for the AH221 in applications where its peak inverse voltage rating is adequate, with the advantage that close control of ambient temperature is not required.

GENERAL DATA

(See also Preamble to Rectifier Section of this catalogue)

Electrical

Filament	..	..	..	..	..	..	..	Oxide Coated
Filament Voltage	..	..	..	..	..	..	..	4.0 V
Filament Current	..	..	..	..	..	..	..	11.0 A
Min Filament Heating Time	..	..	..	..	..	..	..	30 sec
Ambient Temperature Range	..	..	..	..	..	..	..	-55 to +70 °C
Max Peak Inverse Voltage	..	..	..	..	..	..	..	10 13 kV
Max Anode Current:								
Peak	..	..	..	..	..	..	..	6.0 6.0 A
Mean†	..	..	..	..	..	..	..	1.5 1.25 A
Under fault conditions (0.1 second maximum duration)	..	..	..	..	..	..	..	50 A
Max Power Supply Frequency	..	..	..	..	..	..	..	150 c/s

Mechanical

Overall Length..	..	..	..	..	10.16 inches	(258 mm)	Max
Overall Diameter	..	..	..	..	2.32 inches	(59 mm)	Max
Net Weight	..	..	..	..	8 ounces	(230 gm)	Approx
Mounting Position	..	..	..	..	..	..	Any
Base	..	..	..	..	..	..	Goliath Edison Screw
Cooling	..	..	..	..	..	..	Natural

→ Indicates a change.

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MAXIMUM OPERATING CONDITIONS (Absolute Values—see Preamble)

D.C. Output with choke input filter and delayed h.t. switching

Circuit	* Diagram	Peak Inverse Voltage (upto 150c/s) kV	Anode Current in Amperes		Transformer Secondary Voltage (R.M.S.) kV	Max D.C. Output	
			Peak	Mean†		kV	Amps
Single Phase Full Wave	A	10	6.0	1.5	3.5	3.2	3.0
		13	6.0	1.25	4.6	4.1	2.5
Single Phase Full Wave Bridge	B	10	6.0	1.5	7.0	6.4	3.0
		13	6.0	1.25	9.2	8.2	2.5
Three Phase Half Wave	C	10	6.0	1.5	4.1†	4.7†	4.5
		13	6.0	1.25	5.3†	6.2†	3.75
Three Phase Full Wave	D	10	6.0	1.5	4.1	9.5	4.5
		13	6.0	1.25	5.3	12.3	3.75

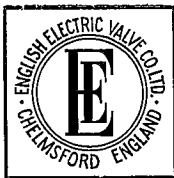
*For diagrams see Typical Rectifier Circuits for Choke Input Filters in the preamble to this section of the catalogue.

†For operation with constant full load. If the load resistance is increased the secondary voltage should be decreased (to avoid excessive peak inverse voltage) until at no load the reduction is 14%. The d.c. output voltage will be correspondingly decreased.

‡Mean anode currents are averaged over any period of 15 seconds maximum

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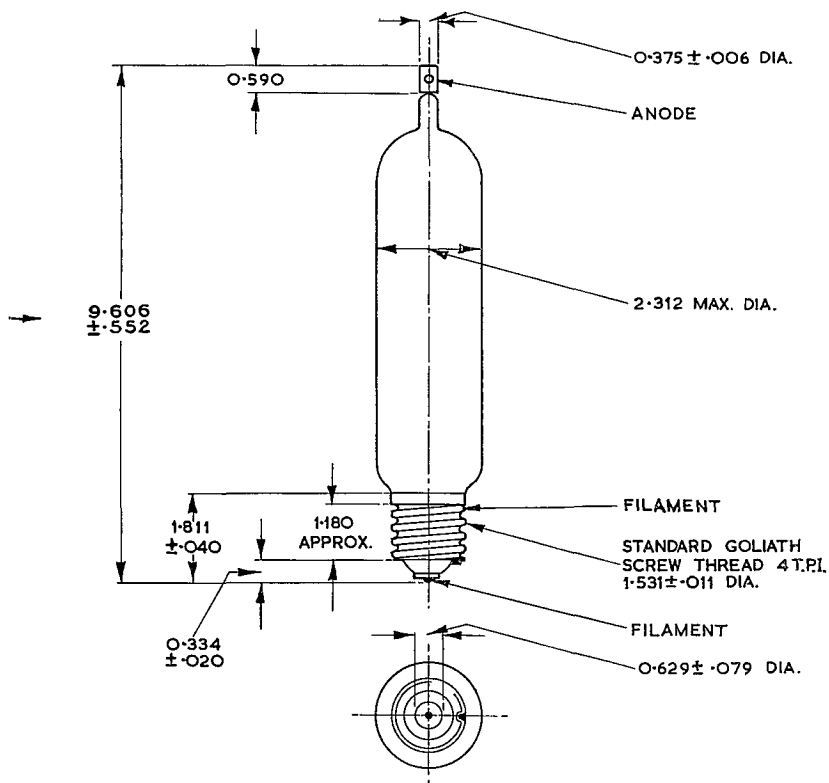
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OUTLINE

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ALL DIMENSIONS IN INCHES

INDICATES A CHANGE