

**3B22****XENON FILLED  
RECTIFIER**

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Service Type CV3815

American Designation 3B22

**INTRODUCTION**

The 3B22 is a hot cathode, full wave, Xenon filled Rectifier with maximum ratings of 725V peak inverse voltage and 4.0A peak current.

**GENERAL DATA**

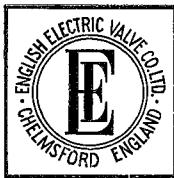
(See also Preamble to Rectifier Section of this Catalogue)

**Electrical**

Filament	..	..	..	..	..	..	Oxide Coated
Filament Voltage	..	..	..	..	..	..	2.5 V
Filament Current	..	..	..	..	..	..	6.25 A Approx
Min Filament Heating Time	..	..	..	..	..	20	secs
Ambient Temperature Range	..	..	..	..	..	-55 to +75	°C
Max Peak Inverse Voltage	..	..	..	..	..	725	V
Max Anode Current (per anode):							
Peak	..	..	..	..	..	..	4.0 A
Mean (4.5 secs averaging time)	..	..	..	..	..	..	0.5 A
Under Fault Conditions	..	..	..	..	..	..	60 A
(0.1 second Max duration)							
Max Power Supply Frequency	..	..	..	..	..	250	c/s

**Mechanical**

Overall Length	..	..	..	6.00 inches	(153 mm)	Max
Overall Diameter	..	..	..	1.66 inches	(42.1 mm)	Max
Net Weight	..	..	..	3 ounces	(90 gm)	Approx
Mounting Position	..	..	..	..	..	Any
Base	..	..	..	..	..	Medium UX4 with bayonet
Cooling	..	..	..	..	..	Natural



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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 (up to 250c/s) V	Anode Current in Amperes		Transformer Secondary Voltage (R.M.S.) V	Max D.C. Output	
			Peak	Mean‡		V	Amps
Single Phase Full Wave	A	725	4	0.5	255	230	1.0
Single Phase Full Wave Bridge	B	725	4	0.5	510	460	1.0
Three Phase Full Wave	D	725	4	0.5	295	690	1.5

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

‡ Mean anode currents are averaged over any period of 4.5 seconds.



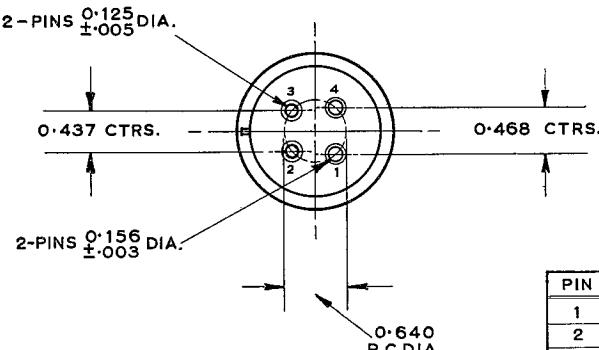
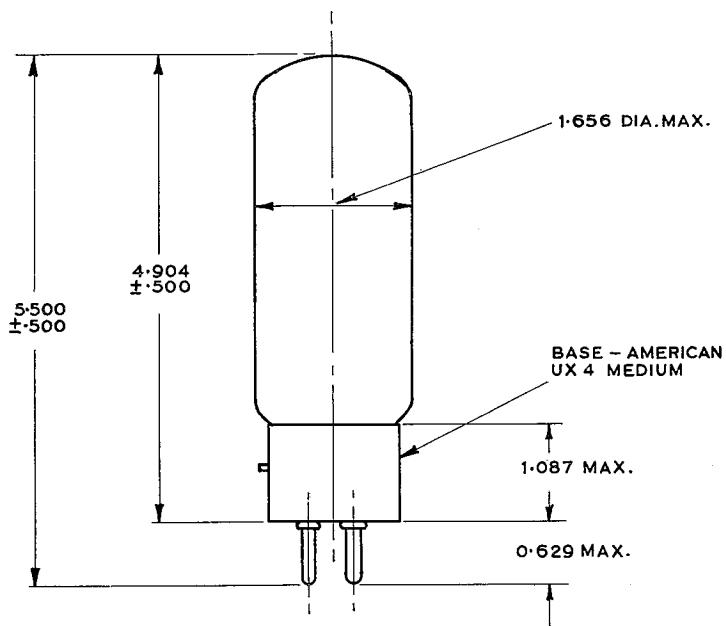
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## OUTLINE

496



PIN	ELEMENT
1	FILAMENT
2	ANODE
3	ANODE
4	FILAMENT

ALL DIMENSIONS IN INCHES

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