

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

Specification AD/CV2518 incorporating Jan-4B32
 Issue No. 1 dated 11th February 1955
 To be read in conjunction with K1006

<u>SECURITY</u>	
<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:</u> Half Wave, Xenon-filled Rectifier.		<u>MARKING</u> K1001/4	
<u>CATHODE:</u> Directly Heated, Oxide coated.		Add:- 4B32	
<u>ENVELOPE:</u> Glass		<u>BASE</u> B4F	
<u>PROTOTYPE:</u> 4B32		(Jumbo 4-Pin)	
<u>RATINGS</u>		<u>CONNECTIONS</u>	
		Pin	Electrode
Filament Voltage (V)	5.0	1	No connection
Filament Current (A)	7.0	2	Filament and Filament Shield
Max. Peak Inverse Voltage (kV)	10.0	3	No connection
Max. Mean Anode Current (A)	1.25	4	Filament
Max. Peak Anode Current (A)	5.0	T.C.	Anode
Max. Operating Frequency (c/s)	150		
Max. Permissible Ambient Temperature Range. (°C)	-55 to +70		
Min. Cathode Heating Time (Secs.)	30		
		<u>TOP CAP</u> CT3 B.S.448	
		<u>DIMENSIONS (Inches)</u>	
		Dimensions	Min. Max.
		Length (Overall)	7.6 8.5
		Diameter	- 2.32

NOTES

A. Absolute Maximum or Minimum Value.

CV 2518

JAN-4B32

THIS SHEET OF TEST LIMITS IS A PART OF SPECIFICATION JAN-1A

Description: Half-Wave Gas Rectifier

<u>Ratings:</u>	Ef	epx	ib	Io	Ta	tk	F
Absolute	Vac	kv	a	Adc		(min.)	cps
Maximum:	5.0±5%	10	5	1.25	-55 to +70	30	150
Test Cond.:	5.00	12	---	---	---	30	60

*Height: Min. 7.6 in. Max. 8.5 in.

*Diameter: Max. 2.32 in.

**Base: Jumbo 4-Pin, A4-29

**Cap: Medium Metal, Cl-5 ←

**Pin No.: 1 2 3 4 Cap

**Cathode: Coated Filament

Element: nc f nc f a

**Envelope: T-18

<u>Ref.</u>	<u>Test</u>	<u>Conditions</u>	<u>Min.</u>	<u>Max.</u>
D-2	Type Approval:	Required for JAN marking		←
F-6a	Drop:			
F-6b(3)	*Bump Test:	Angle=20°		
F-3	Holding Period:	t=96 hrs.		
F-6c(3)	Emission:	ib=10a	etd: ---	16.0 v
F-6n	†Operation:	Io=1.25Adc(min.); t=120(min.)		
F-6i	Filament Current:		If: 6.25	8.00 Aac
F-4	Life Test:	epx=10kv; Io=1.25Adc; ib=5.0a; Group D	t: 500	--- hrs
F-4b	Life Test End Point:	Emission	etd: ---	20.0 v