

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 (Jumbo 4-Pin)										
<u>PROTOTYPE:</u> 4B32											
<u>RATINGS</u>	<u>Note</u>	<u>CONNECTIONS</u>									
Filament Voltage (V) 5.0		Pin 1 Electrode No connection									
Filament Current (A) 7.0		Pin 2 Filament and Filament Shield									
Max. Peak Inverse Voltage (KV) 10.0	A	Pin 3 No connection									
Max. Mean Anode Current (A) 1.25	A	Pin 4 Filament									
Max. Peak Anode Current (A) 5.0	A	T.C. Anode									
Max. Operating Frequency (c/s) 150	A										
Max. Permissible Ambient Temperature Range. (°C) -55 to +70	A										
Min. Cathode Heating Time (Secs.) 30	A	<u>TOP CAP</u> CT3 B.S.448									
		<u>DIMENSIONS (Inches)</u>									
		<table border="1"> <tr> <td style="text-align: center;">Dimensions</td> <td style="text-align: center;">Min.</td> <td style="text-align: center;">Max.</td> </tr> <tr> <td style="text-align: center;">Length (Overall)</td> <td style="text-align: center;">7.6</td> <td style="text-align: center;">8.5</td> </tr> <tr> <td style="text-align: center;">Diameter</td> <td style="text-align: center;">-</td> <td style="text-align: center;">2.32</td> </tr> </table>	Dimensions	Min.	Max.	Length (Overall)	7.6	8.5	Diameter	-	2.32
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Length (Overall)	7.6	8.5									
Diameter	-	2.32									
<u>NOTES</u>											
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 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-6a	†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

JAN-4B32
1 August 1948

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATIONS CV2519 ISSUE 4 DATED 1.5.62. and SPECIFICATION CV3991 ISSUE 2 DATED 1.5.62.

AMENDMENT No. 1

Page 1. ABSOLUTE MAXIMUM RATINGS; Insert the following ratings as shown:

Parameter:	Ef	Eb	Ec1	Ec2	Ehk	Ib	Pg1	Pg2	Pp	Pi	(Base Seal) °C	(Anode Seal) °C	(Anode Core) °C	tk	Alt
Unit:	Vac	Vdc	Vdc	Vdc	Vdc	mAdc	W	W	W	W	Note 1	Note 1	Note 1	min	ft
AB Audio	Note 2	2000	-250	400	±150	250	2	12	250	500	175	200	250	30	10000
C Tel(Up to 150Mc)	"	1600	"	300	"	200	"	10	165	320	"	"	"	"	"
C Tel(150 to 500Mc)	"	1000	"	"	"	"	"	"	"	200	"	"	"	"	"
C TLG(Up to 150Mc)	"	2000	"	"	"	250	"	12	250	500	"	"	"	"	"
C TLG(150 to 500Mc)	"	1250	"	"	"	"	"	"	"	312	"	"	"	"	"

October 1962

T.V.C. for
R.A.E.