

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

VALVE ELECTRONIC CV1835

Specification AD/CV1835 incorporating Jan-
Issue No. 1 dated 11 Feb. 1955. 3B28.
To be read in conjunction with K1006

SECURITY
Specification
Unclassified

Valve
Unclassified

<u>TYPE OF VALVE:</u> Half Wave, Xenon-filled Rectifier.		<u>MARKING</u> K1001/4 Add:- 3B28	
<u>CATHODE:</u> Directly Heated, Oxide coated.		<u>BASE</u> A4-10 K1006 Figure 15	
<u>ENVELOPE:</u> Glass		USM4B	
<u>PROTOTYPE:</u> 3B28			
<u>RATINGS</u>		<u>CONNECTIONS</u>	
		Pin	Electrode
Filament Voltage (V)	2.5	1	Filament
Filament Current (A)	5.0	2	No connection
Min. Cathode Heating Time (Secs.)	5	3	No connection
Rating (a)		4	Filament
Max. Peak Inverse Voltage (kV)	10.0	T.C.	Anode
Max. Mean Anode Current (mA)	250	<u>TOP CAP</u> CT3 B.S.448	
Max. Peak Anode Current (A)	1.0		
Max. Frequency (c/s)	150	<u>DIMENSIONS (Inches)</u>	
Rating (b)			
Max. Peak Inverse Voltage (kV)	5.0		
Max. Mean Anode Current (mA)	500	Dimension	Min. Max.
Max. Peak Anode Current (A)	2.0	Length (Overall)	5.87 6.15
Max. Frequency (c/s)	500	Diameter	- 2.07
Max. Permissible Ambient Temperature Range (°C)	-55 to +75		

NOTES

A. Absolute Maximum or Minimum Value.

CV1835

MIL-E-1/753A
17 December 1954
SUPERSEDING
MIL-E-1/753
13 August 1954

INDIVIDUAL MILITARY SPECIFICATION SHEET ELECTRON TUBE, RECTIFIER, HALF-WAVE, GAS JAN-3B28

This specification sheet forms a part of the latest issue of Military Specification MIL-E-1.

<u>Ratings:</u>	Ef	epx	ib	Io	tk	F	T	Alt
Absolute	Vac	kv	a	mAdc	sec(min)	cps	°C	ft
Maximum:	2.5/5%	10.0	1.0	250	5	150	-55 to 75	10,000
	2.5/5%	5.0	2.0	500	5	500	-55 to 75	10,000

Test Cond: 2.5 11 --- --- 30 60 --- ---

*Height: 5-7/8 in. min., 6-5/32 in. max.

*Diameter: 2-1/16 in. maximum

**Base: Medium 4-Pin Bayonet, A4-10, Phenolic

**Cap: Medium, C1-5

**Pin No.: 1 2 3 4 Cap

**Cathode: Coated Filament

Element: f nc nc f shield a

**Envelope: T-16

For miscellaneous requirements see paragraph 3.3, Inspection Instructions for Electron Tubes.

<u>Ref.</u>	<u>Test</u>	<u>Conditions</u>	<u>Min.</u>	<u>Max.</u>
3.1	Qualification Approval:	Required for JAN Marking		
4.9.18.1.3	Carton Drop:	(d) Package Group 1; Carton Size M		
4.5	Holding Period:	t=96 hrs.		
4.9.19.3	*Bump:	Angle=20°		
4.10.1.2	Peak Emission:	ib=5.0a	std: ---	14.0 v
4.10.8	Filament Current:		If: 4.60	5.40 Aac
4.10.13	Operation (1):	Io=250mAdc minimum; t=120 minimum		
4.10.13	**Operation (2):	epx=7.0kv; F=500cps; Io=500 mAdc; ib=2.0a; t=120 minimum		
4.11	Life Test (1):	Group C; ep=10kv; Io=250mAdc; t: 500 ib=1.0a	---	hrs
4.11	**Life Test (2):	Operation (2)	t: 500	hrs
4.11.4	Life Test End Point:	Peak Emission	std: ---	17.0 v
Note 1:	Reference specification shall be of the issue in effect on the date of invitation for bids.			