## ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

Specification AD/CV2328 Issue No. 2	SECUR	ITY
Dated: 28. 8. 56. To be read in conjunction with K1001 B.S.448 and B.S.1409	Specification Unclassified	<u>Valve</u> Un <b>classified</b>

## ---> Indicates a change

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TYPE OF VALVE: TYPE OF DEFIECTION: TYPE OF FCCUS:	Cathode Ray T Magnetic Magnetic	ube			<u> </u>		
BULB: SCREEN: SCREEN SIZE:	Glass 008 with aluminium backing 12 inch		008 with aluminium backing		B.S.4	BASE B.S.448/B8-0 Duensions	
PROTOTYPES:	CV1869 and 12	T03A		See drawing	ED-all/125 and out	4	
RATING (All limiting value	lues are absolu	ute)	Note	CONNEC	TIONS		
Heater Voltage Heater Current Max. First Anode Vol Max. Second Anode Vol Max. Heater/Cathode (heater negative to	ltage (kv) Voltage	6.3 0.65 850		Pin  1 2 3 4 5 6 7 8 Side Contact  SIDE COL			

## NOTE

A. The fluoride screen shall not contain beryllium.

CV2328/2/1

## TESTS

To be performed in addition to those applicable in KlOOL

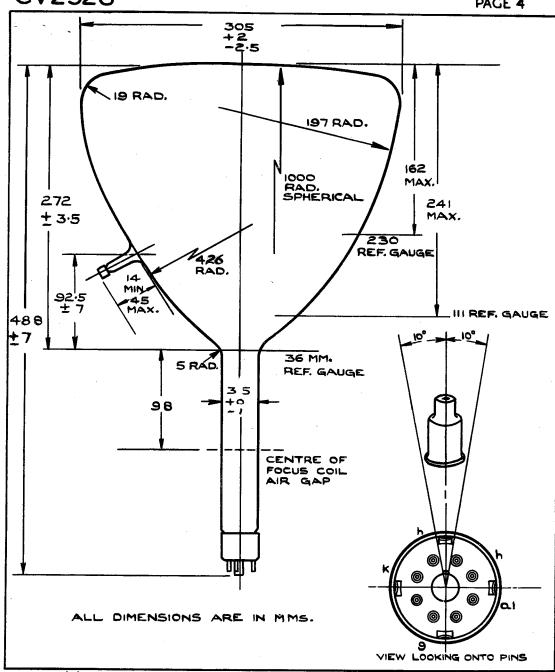
		Test	Condi	tions		Li	mits	Ho.	W.
	Vh (V)	Va2 (kV)	Val (V)	Vg (▼)	Test	Min.	Max.	Tested	Note
	See K1001/5A.13				Capacitances (pF)  1. Grid to all other electrodes.  11. Cathode to all other electrodes	-	<b>9</b> 8	5≸ œr 20	
Ъ	6.3	-	-	-	Ih (A	) -	0.65	100%	
c	6.3	10	800	Adjust to cut off	Cut Off Negative Vg (V	) 50	115	100%	
d 6.3 10 800 - Spot to be deflected off the usable screen area, or scanned. Adjust Vg to Ib = 50 MA.				screen	Change in Vg from value found in test 'c' (V	-	30	100%	
Vg to be adjusted to give a light output of 0.15 candela with a raster 14 cms x 14 cms.				ed to tput of th a	Light Cutput and Beam Current (Ib) Tb (AA	) -	7•5	100%	
f	f 6.3 10 800 -  Focus adjusted to optimum.  Deflection With a linear scan of 10 kc/s and a line length of 250 mm, the line width shall be measured at the centre of the trace.  Grid The grid to be pulsed positively from out-off with amplitude equal to the value obtained in test 'd', the nominal value of pulse duration being 100 a secs., and the repetition rate 25 p.p.s				Line Width (mm)		0.5	100\$	

CV2328/2/2

To be performed in addition to those applicable in Kl001

		Test (	ondi	tions		Li	aits	No.	
_/	(A) AP	Va2 (kV)	Va1 (V)	<b>Vg</b> (V)	Test	Nin.	Max.	Tes ted	Note
g	See	ecomme: Kl001/9	ı nded 1 54.3.2	-115 lethod: 2 and redistor	Grid Insulation  i. Leakage Current  (MA)  ii. Increase in  Voltmeter reading	-	11.5 100%	100%	
h	150 be to	Kl001/5 Volts a meen hea	pplie	d	Heater Cathode Leakage Leakage Current (AA)	<b>60</b>	150	100%	
j	6.3	10	800	Any cen- venient value	Useful Screen Area Diameter (nm)	265	-	100%	
k	6.3 No f ting pres	fields	800 ag or	-do- deflec-	Deviation of spot from centre of screen. (mm)	-	12	100%	
1	Vg to be adjusted to give a light output of 0.15 candela with a raster 14 cms x 14 cms.				Persistence Time taken from cessation of excitation for light output to decay to 0.5% of initial value. (secs.)	120	-	10%	
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CV2328/2/3



CV2328/2/IV