ELECTRONIC VALVE SPECIFICATIONS SPECIFICATION AD/CV2280 Issue 2 dated 29.6.53.

imendment No. 1

Page 1.

Side Contract.

Delete:- Snap Terminal

Insert: CT7.

See BS448/CT.7

March, 1962.

Admiralty Surface Weapons Establishment.

N.11579

VALVE ELECTRONIC CV2280

ALTIRALTY SIGNAL & RADAR ESTABLISHMENT

fication AD/CV2280 Issue 2.	SECURITY	
Execution AD/CV2280 Issue 2.	Specification	Valve
read in conjunction with K1001.	Unclassified	Unclassified

<u> </u>	→ indicates a change							
OF DEFLECTION: Electrostatic. JULE: Internally coated with conductive coating.		MARKING-						
		See K1001/4.						
SCREEN: BY8. PROTOTYPE: VCRX192.		BASE						
			B12B					
RATING				Pin	Electrode			
1			Note	1	С			
Heater Voltage		4.0		2 3	G			
Heater Current	(A)	1•0		3	H			
Max. Fourth Anode					H			
	kV)	5.0	i	4 5 6	A2			
Max. Third Anode	kV)	2.0			Pin omitted			
Voltage (KV)	2.0		7	¥2			
				7 8	X2 .			
TYPICAL OPERATING CONDI	TIONS			9	A1, A3 and			
	Ī				conductive			
Fourth Anode Voltage (kV)	4.0			coating.			
		2.0		10	X1			
		150		11	Y1			
X-Plate Sensitivity (mm		0.13		12	Pin omitted			
Y-Plate Sensitivity (mm		0.13		Side				
• •	' '	-		Contact	A4.			
				SIDE CONTACT				
	- 1			Snap Terminal				
	Į			DIMENSIONS				
	- 1			See Drawing on Page 4.				
	- 1			PACKING-				
				See K1005 under CV1526				
aromes								

NOTES

CV2280/2/i

A. The tube shall be of the post deflector accelerated type and of a design such that a change of + 10% in the Va2 Voltage shall not produce an appreciable change in the cut-off voltage.

B. The tube shall be adequately free from microphony.

CV2280

TESTS

To be performed in addition to those applicable in K1001. Limits Test Conditions Va1 Va3 Test No. Va4 Vh. Va2 Tested ٧g. Min. Max (KA) (kv)

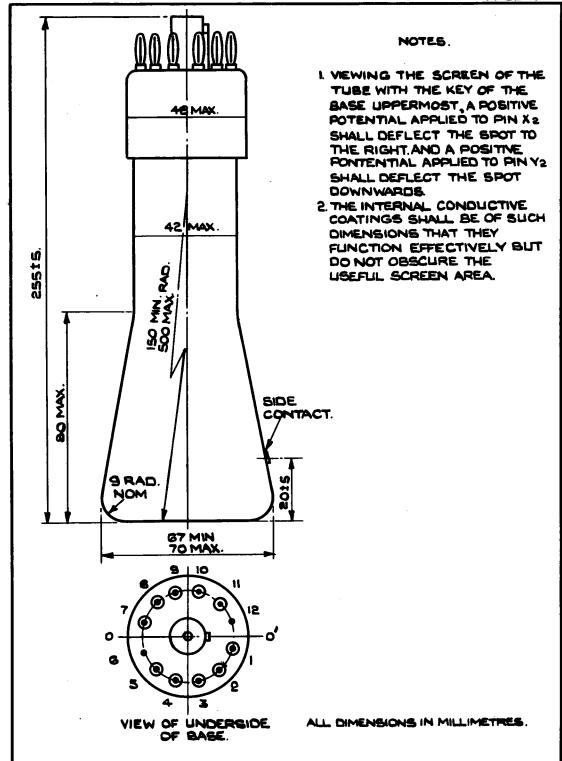
In all cases symmetrical deflecting voltages shall be applied to the Y plates and asymmetrical deflecting voltages to the X plates. See K1001/AIII Capacitances (pF) i. Each X or Y plate to all other 5%(5) electrodes. 15 ii.One X to one Y plate. 4 iii.Grid to all 21 other electrodes. Ih **5%(** 10) (A) 0.9 1.1 b 4.0 0 Adjusted djust 4.0 2.0 Vg 4.0 (v) -105 100% for opto timm cut off focus. a 4.0 2.0 **(V)** 4.0 -doi. Vg -1.0 100% ii. Change in value Vg adjusted to obtain a of Vg from Test 'c' light output of 0.07 candela through a C2 20 100% hi. Within the range filter. of grid voltage from Test Set 331 used. cut-off to standard light output beam current shall in-100% crease continuously, iv. Afterglow (secs 100% c 4.0 4.0 2.0 -doi. Line width 1.2 100% DEFLECTION With a sine wave 5%(10) ii. Va2 (v) 200 time base of 10 kc/s nom. and a line length of 55 mm in the X and Y directions successively. The line width to be measured at the centre of the trace. GRID. The grid will be pulsed positively from cutoff with amplitude equal to the value obtained in test (d.ii), the nominal values of pulse duration and re-currence being 100 assecs and 100 c/s respectively.

CV2280/2/ii ·

TESTS (CONTD.)

Vh Val Va3 Va2 Vg Test Mi	dmits	No.	1
Vh (kV) Va1 (kV) Vg Hest Mi		37.	
	n. Max.	No. Tested	
f 4.0 4.0 2.0 Any convergion of the convergion o	21 100%	100% 100%	4
Resistor = 5 Megohms. g 4.0 ditto - Heater Cathode			
See K1001/5A.3.3. Heater Cathode Insulation	200	100%	
h 4.0 4.0 2.0 ditto Any convenient value. ii. X-plate (mm/V) 0.1		% (10)	
j 4.0 4.0 2.0 ditto ditto Deviation of spot from centre of screen. (mm)	7.0	100%	
k 4.0 4.0 2.0 ditto ditto Deflection to cover stated circle centred on centre of screen. Useful Screen Area Diameter (mm) 55		100%	←
1 4.0 4.0 2.0 ditto ditto Angle between X and 88 Y axes of deflection	920	100%	
m 4.0 4.0 2.0 ditto ditto i. Orientation of Y axis of deflection relative to 00° on drawing. ii. Orientation of dia. line through snap terminal re-	<u>+</u> 10°	100%	
lative to Y axis.	<u>+</u> 10°	100%	

CV2280/2/111



CV 2280/2/N