MINISTRY OF AIRCRAFT PRODUCTION (DCD)

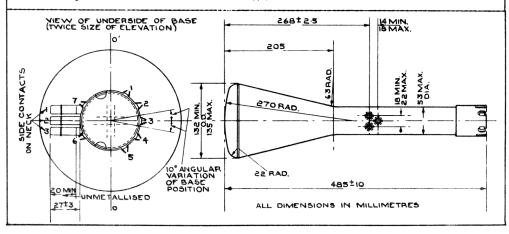
CATHODS RAY TUBE TYPE



TYPE OF DEFLECTION: - Elect BULB: - Inter SCREEN: - To g		MARKING See K1001/4 BASE 7 Clip Base		
RATIN	<u>KC</u>	Note		Electrode
Heater Voltage (V) Heater Current (A) Max. Final Anode Voltage (I X-plate Sensitivity (mm/V) Y-plate Sensitivity (mm/V) Desirable spot size (mm) Max. beam current (JA) TYPICAL OPERAT: Third Anode Voltage (KV) Second Anode Voltage (V) First Anode Voltage (V)	870 _{/y} 500 _{/y} 1.0 50	(a.5)	2 3 4 5 6 7 Side Contact 1 Side Contact 2 Side Contact 3	H and K H A1 A2 X1 X2 Y2 A3, internal plate screen metallising and graphite

notes

- A The tube to be suitable for operation with asymmetrical deflection voltages at frequencies up to 200 Mo/s. applied to the pair of plates which are connected to the side terminals, and with symmetrical deflection on the pair of plates which are brought out to contacts on the base.
- B The external metal coating, if used, shall be of such dimensions that it functions effectively but does not obscure the required useful screen area.
- C Sides of glass tubes to be substantially parallel and radius of join to be as small as possible.
- D Viewing the screen with the side contacts Y1 and Y2 on the right, a positive voltage applied to terminal XI shall deflect the spot to the right. A positive voltage applied to terminal Y1 shall deflect the spot downwards.
- E Metal caps on side contacts to conform to BSS 448.





VC			erforme	in ad	dition to	those applicable in K.1003.		Page 2	!
Clause	Test Conditions					T	Limi ts		No.
	٧h	Va3 (kV)	Va ₂	Va1 (kV)	Vg ₁	Test	Min.	Max.	Tested
(a)	See	K.1003	Clause	5.12		INTER-ELECTRODE CAPACITANCES (pF) 1. Each X-plate to all other electrodes	-	15	10%(10
						2. Each Y-plate to all other electrodes 3. Grid to all other electrodes	-	7.0	10%(10
(b)	4.0	0	0	0	0	4. One X to one Y plate Ih (A)	<u> </u>	1.3	10%(10 10%(10
(o)	4.0	3.0		0.2	-	The line width shall not be greater than that of standard tube.			100%
	Vg to	give	spot br	illianc	e equal	tube. 2. Va ₂ (V)	420	670	100%
	to that of standard tube on a soan length of 80 mm in the X and Y directions successively.				he X	3. Vg (V)	To be at least 2 V negative to cathode.		100%
(d)	4.0	3.0	As in test (c)	0.2	Adjust- ed to give cut-off	1Vg 2. Increase in negative Vg compared with value noted in test (c)(3).	-	60 35	100% 100%
(•)			As in test (c) Clause		-60	GRID INSULATION Leakage current (/uA) Increase in voltaeter reading	-	12 100%	100% 100%
(f)	4.0	3.0	As in test (c)	0.2	Any conven- ient value	DEFLECTION SENSITIVIES 1. X plates (mm/V) 2. Y plates (mm/V)	740/Va3	1000/V=3 575/V=3	10%(10 10%(10
(g)	4.0	3.0	As in test (c)	0.2	Any conven- ient value	Deviation of spot from centre of soreen (mm)	-	10	100%
(h)	4.0	3.0	As in test (c)	0.2	Any conven- ient value	USEFUL SCREEN AREA 1. I deflection (mm) 2. I deflection (mm)	-40 -40*	- -	100% 100%
	Deflection measured from centre of screen								
(1)	4.0	3.0	As in test (c)	0.2	Any conven- ient value	 Orientation of X axis of deflection relative to 00° en drawing. Angle between X and Y axes of deflection. 	80 • 85 •	100°	100% 100%
(k)	4.0	3.0	As in test (c)	0.2	Any conven- ient value	TRAPEZOIDAL DISTORTION 1. Angles between adjacent sides 2. Angles between opposite sides	85° 175°	95° 185°	10%(10