CVI39I

Specification MOS/CV1391/Issue 3

Dated:- December 1957.

To be read in conjunction with K1001 and BS.448

Specification Yalve Unclassified

Indicates a change

TYPE OF DEFLECTION:- El ei as TYPE OF FOCUS:- El BULB:- Gla in	ther symmetrical yolt ymmetrical volt ectrostatic ss, ternally coated	l of ages.	MARKING S S K 1001/4 BASE BS. 448. B 12 D CONNECTIONS			
SCREEN:- BB	nductive coatin 3	ig.	Pin Electrode			
RATING Heater Voltage Heater Current Max. Final Anode Voltag X plate sensitivity Y plate sensitivity TYPICAL OPERATING CONDI	(mm/V)	4 1.0 5 620 Va3 1160 Va3	1 2 3 4 5 6 7 8 9 10 11	g k h h a1 a2 Internal coating y2 x2 a3 x1 y1		
Second Anode Voltage First Anode Voltage Beam Current	(UA) (KY)	475 2 30	<u>DIMENSIONS</u> See drawing, Page 4			
			PACKAGING See K1005			

NOTE:-

A:- The focussing system shall be of the three electrode type .

B:- The tube must be adequately free from Microphony and Deflection Defocus. These tests will be covered by Type Approval.

To be performed in addition to those applicable in K1001

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186			Limits		No.
Clause	Test Conditions	Tests	Min.	Max.	Tested
a	See K1001/5A.13	Capacitances (pf) 1. Each X plate to all other electrodes. 2. Each Y plate to all other electrodes. 3. Grid to all other electrodes. 4. Each X plate to each Y plate.		25 25 25 3	2 %(5)

FOR ALL TESTS GIVEN BELOW Vh = 4.0V

b		Ih	(A)	0.66	1.2	100%
С		Heater Cathode Current				
	Cathode 100 volts positive to heater.	1. Current	(uA)	-	100	10 0 %
	Cathode 50 volts negative to heater.	2. Current	(AB)	-	50	100%

FOR ALL TESTS GIVEN BELOW EXCEPT CLAUSE (K) Va1 = 2 kV, Va3 = 3 kV

d	With a raster scan of convenient size adjust Va2 for optimum focus and Vg for a light intensity of 0,7 "orthochromatic candela." See K1001.5A.9.	1. 2.	-Vg. Value to be not Useful screen area. X direction Y direction	(mm)	5 <u>+</u> 60 <u>+</u> 52		100% 100%
e	Vg as in test "d". With an elliptical scan of length		L ine width	(mm)		0.9	100%
	100 mm. in the X and Y directions successively adjust Va2 for optimum focus. The minor axis of the ellipse should not exceed 5 mm.	۷,	Ve2	(V)	325	625	100%
f	Va2 adjusted for optimum focus and Vg for cut-off.	1. 2.	-Vg. Increase in negative value of Vg compared value noted in test			80	100%
		3.	"d"1. Within the range of voltage from cut-off that obtained in cla the beam current she increase continuous	to Suse di	5	3 5	100% 100%

TESTS (Contd)

	Mant Canditions	Ma at a	Limits		No.
	Test Conditions	Tests	Min.	Max.	Tested
g	See K1001/5A.3.2. (a) Vg-80V. (b) Alternative method Resistor 10 meg.	Crid Insulation (a) Leakage Current (uA) (b) Increase in voltmeter reading, (%)		8 100	100%
ħ		Deflection Sensitivities 1. X plate (mm/V) 2. Y plate (mm/V)	Va3	700 Va3 1300 Va3	10%(10)
J	See K1001/5A.11.1.	Deviation of spot from centre of screen (mm)	-	10	100%
k	With Va3 at 5 kV See K1001/5A.14.	Over Voltage Test			100%
1		Orientation of deflection Axes 1. Orientation of X axis of deflection relative to OO' on dwg. 2. Angle between X and Y axes of deflection	80° 85°	100° 95°	100%
m	A screen area of at least 100 mm, x 100 mm, to be scanned with asymmetrical deflection.	Trapezoidal Distortions 1. Angles between adjacent sides 2. Angles between opposite sides	85° 175°	95° 185°	10%(10)
m	See K1 001/11.5.	Vibration.			T. A.

DRAWING NOTE

The neck diameter may be less than 68 mm. if the manufacturer provides two rings of an approved material of outside diameter within the specified tolerances.

