MINISTRY OF SUPPLY. R.R.E.

CV1738

Specification MOS/CV1738 Issue 1A - dated 2nd July, 1960 To be read in conjunction with K1001 and BS448					ecific nclass		CURITY Valve Unclassified		
→ Indicates a change									
TYPE OF VALVE:- Cathode Ray Tube TYPE OF DEFLECTION:- Magnetic TYPE OF FOCUS:- Magnetic				MARKING See K1001/4					
BULE:- Glass, Internally coated with conductive coating. SCREEN:- BB1 (Zinc Oxide) aluminium backed					<u>Base</u> BS448 B8G				
RATING Note				CONNECTIONS Pin Electrode					
Heater Voltage Heater Current Max. Anode Voltage Max. Heater - Cathode Voltage	(V) (Y) (Y)	4 1 25 150	A		1 2 3 4 5 6	Heate Inter Inter Grid	nally connected nally connected	^	
Anode Voltage Grid Voltage (cut-off) Grid Drive to give a light output of 0.08 Candela	(A) (A) (FA)	22 -50 25		Co	7 8	Inter Heate Catho Anode	đ e		
CAPACITANCES Max.Cg to all other electrodes Max. Cc to all other	(v) (pf)	10	A	To To	fit o	ap val	ONTACT Lve Connector No.10H/21409	*	
electrodes	(pf)	12			See drawing, page 4				
A. Heater negative to cathode		Ā	OTES					T	

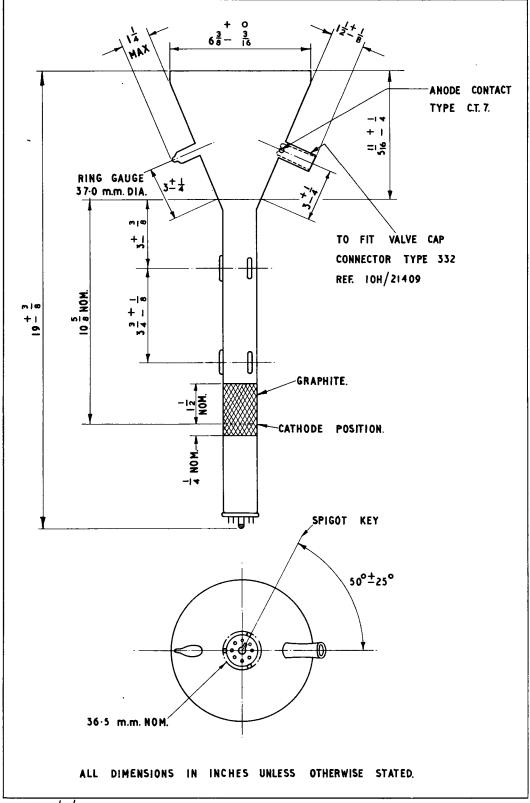
Page 2 CV1738 To be performed in addition to those applicable in K1001

		 	Limits			٦
Clause	Test Conditions	Test	Min.	Max.	Tested	
a	See K1001/5A.13	Capacitances (pf)				7
		 Grid to all other electrodes 		12	2%(5)	
		2. Cathode to all other electrodes		12	2 %(5)	4
	FOR ALL	TESTS BELOW Vh = 4. OV EXCEPT C	LAUSE	j		
ъ		Heater Current (A)	0.8	1.1	100%	
	FOR ALL	TESTS BELOW Va = 22 kV EXCEPT	CLAUSE	j		
C	Adjust for optimum focus Adjust Vg for cut-off See K1001/5A.10.	Grid Base - Vg (V) (Value to be noted)	30	70	100%	
đ	Adjust Vg for a light intensity of 0.08 candela using a raster of convenient size.	Grid Drive Change in Vg from value found in test (c) (V)	15	30	100%	
е	Adjust for optimum focus. Linear line scan 5_4^{10} long. Adjust Vg as determined in (d). With an interlaced 405 line T.V. raster with the frame scan expanded to facilitate line width measurement.	Line Width measured at the centre of the trace (mm)		0.15	100%	
f	Adjust for optimum focus, set = 0 using a raster of convenient size	Light intensity (candels)		0.6	100%	 ◆
g	Vg = -50V	Grid Insulation Leakage current (uA)		5	100%	
h	Vhk 150 Volts See K1001/5A.3.3.	Heater-Cathode Insulation Leakage current (vA)		150	100%	
j	Vh = O Volts Va = 25 kV.	Anode Leakage Current (uA)		0.1	100%	
k	Adjust for optimum focus Vg taken beyond cut-off.	Stray Emission There shall be no visible screen excitation. Heater-cathode voltage adjusted for optimum			100%	
		value (V)	<u> </u>	20		

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Clause	_ Test Conditions	Test	Limits Min. Mex.		No Tested
1	Adjust for optimum focus. Vg as in test "d". Raster to cover screen area	Useful Screen Dia (in)	5 1		100%
126	With a defocussed raster covering the useful screen area	Elemishes (mm) 1. The screen and inner part of the glass face in a central area 1 2/3" dia. shall be free from non-uniformity such as swirls or mottling and from (a) opaque blemishes of mean dia. or (b) semi transparent blemishes of mean dia. 2. The screen area between the 1 2/3" dia. and 5½" dia. shall be free from (a) opaque blemishes of mean dia. or (b) semi transparent blemishes of mean dia. 3. In the outer half of the thickness of the glass face, blemishes of mean dia. (a) may be present in the central area or of the mean dia. (b) in the rest of the face.		(a)0.25 (b)0.4 (a)0.8 (b)1.0	100%
n	No focussing or de- flecting fields. Vg any convenient value.	Centrality Deviation of spot from geometric centre of screen (mm)		7	100%

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