

VALVE ELECTRONIC

CV 51

MINISTRY OF SUPPLY (S.R.D.E.)

Specification: MOS/CV51/Issue 5	<u>SECURITY</u>	
Dated: 6.2.50.	<u>Specification</u>	<u>Valve</u>
To be read in conjunction with K1001	Restricted	Unclassified

—→ indicates a change *declassified*

<u>TYPE OF VALVE:</u> Tuning indicator			<u>MARKING</u>		
<u>CATHODE:</u> Indirectly heated			See K1001/4		
<u>ENVELOPE:</u> Glass-ummattalised			<u>PACKAGING</u>		
<u>PROTOTYPE:</u> E1320			See K1005		
<u>RATING</u>			<u>BASE</u>		
			IO		
			Note		

To be performed in addition to those applicable in K1001

	Test conditions				Test	Limits		No: tested
	Vh	Va	Vt	Vg		Min.	Max.	
a	6.3	-	-	-	Ih (A)	0.27	0.33	100% or S
b	6.3	250	250	-11	Ia (mA)	4.0	9.3	100%
c	6.3	250	250	-11	It (mA)	0.5	6.5	100%
d	6.3	250	250	-11	Rev. Ig (μ A)	-	1.0	100%
For tests e, f, g and h given below, the anode voltage is to be applied through a resistance of 1 megohm \pm 1%								
e	6.3	180	180	Adjust so that shadow is not quite closed	Screen quality test Notes 1 & 2			100%
f	6.3	250	250	-1	Shadow to be open to an angle of 60° (approx)			100%
g	6.3	250	250	-6	Shadow must not be closed			100%
h	6.3	250	250	-15	Shadow must be closed at outer edge and any gap at inner edge must not exceed 1 mm			100%

NOTES

1. This test must be carried out before applying any of the tests in which $V_a = V_t = 250$ volts.
2. Under the conditions specified in clauses e, f, g and h, the target shall be reasonably free from:-
 - (a) Uneven brightness of the illuminated section.
 - (b) Bright patches in the shadow section.
 - (c) Poorly defined and irregular shadow edge.