ELECTRONIC VALVE SPECIFICATIONS SPECIFICATION MOS/CV.5119 ISSUE No. 1 DATED 10.2.58 AMENDMENT No. 1.

Page 4.

a) Note in Top left hand corner.

Amend the note to read as follows:-

"Variation of angular markings must not exceed ±10' of arc from their theoretical positions. The spacing of any 2 adjacent markings must not vary by more than 10' of arc".

b) Beneath lower left hand quadrant of face plate:-

The dimension quoted as $10^{\circ} \pm 10^{\circ}$ amend to read:-

"30° ± 10°"

Royal Aircraft Establishment.

January 1960

N 12448

MINISTRY OF SUPPLY (D.L.R.D./RAE)

Valve Electronic C V 5119

SPECIFICATION MOS/CV.5119			SECURITY				
ISSUE NO. 1 DATED 10.2.58			SPECIFICAT:		<u>VALVE</u> Unclassified		
				1			
TYPE OF VALVE: Cathode Ray Tube with concave face.			MARKING See K. 1001/4				
TYPE OF DEFLECTION: Magnetic. TYPE OF FOCUS: Magnetic.							
ENVELOPE: Glass with internal conductive coating.							
SCREEN: GG5 with aluminium backing and anti- reflection coated front face.							
PROTOTYPE: 31C2/P1 (Mod.)							
RATING (all limiting values are absolute) NOTES			B ase Bss.448/B12A				
Heater Voltage (V) Heater Current (A) Max. Anode Voltage (KV) Max. Heater Cathode Voltage (V) Typical Operating Conditions Anode Voltage (KV) Grid Voltage (cut off) (V)	6.3 0.6 12.5 150		CONNECTORS				
			PIN	ELECTRODE			
			1 2 3,4,5,6, 7,8,9 10 11 12 Side Contact	Cat	i pin connection hode ter	h gl NP NC k h	
CAPACITANCES (pF) Cathode to all (max.) Grid to all (max.)	10 10		SIDE CONTACT Recess Cap BS.448/CT8				
				IMENS: rawin	IONS g on page 3		
•	NOT	ES					

- 1. Heater negative.
- The tube has a linear bearing scale on its inner front face as shown in drawing on page 4.

CV5119

Test Conditions		Test		mits	,,,	Notes
				Max.	No. Tested	
a See K.1001/5A.13		Capacitances (pF) Grid to all other electrodes Cathode to all other electrodes	Min. - -	10 10	}5% (5)	
	Vh Va Vg (V)					
Ъ	6.3	Heater Current (A)	. 53	.67	100%	
8	6.3 9.5 Adjust to cut-off Measured with a 140mm long focussed line.	Negative Grid Volts (-♥)	43	93	100%	·
đ	Adjust for optimum focus.	1) Negative grid volts (V)	28	-	100%	
	Vg adjusted to give a light output of 0.15 candela.	2) Change in value of Vg from test 'C'. (V)	-	15	100%	
е	6.3 9.5 Adjust Adjust for optimum focus. Vg adjusted to give a light output of 0.15 candela with a linear of sine wave scan of 50 c/s nom. and line of length lh0mm in the X and Y directions successively. The line width to be measured at the centres.	Line width. (mm)	-	1.3	100%	1
f	6.3 9.5 -100 For recommended method see Kl001/5A.3.2 Resistance = 10 MΩ	Grid Insulation 1) Leakage Current (μA) or 2) Increase in voltmeter reading.	-	10 100%	100% 100%	
g	venient values.	Deviation of Spot from (mm) eentre of screen.	-	10	100%	
<u></u>	See #1001/54.11.1.					

NOTES

1. Centre of focus coil gap to be 41 mm from grid face.

CV5119



