

MINISTRY OF SUPPLY, D.L.R.D./R.A.E.

SPECIFICATION <i>M.O.S. / CV.5060</i>	<u>SECURITY</u>	
ISSUE 2 DATED 1.3.59	<u>SPECIFICATION</u>	<u>VALVE</u>
To be read in conjunction with BS.448, BS.1409 and K1001.	Unclassified	Unclassified

→ Denotes a changes

TYPE OF VALVE - Pentode Wide Band R.F. and Video Amplifier			<u>MARKING</u> See K1001/4		
CATHODE - Indirectly heated			<u>BASE</u> BS.448/B9A.		
ENVELOPE - Glass			<u>CONNECTIONS</u>		
PROTOTYPE - Z.759			Pin	Electrode	
<u>RATING</u> (All limiting values are absolute)			1	Cathode	k
			2	Grid	g1
			3	Cathode	k
			4	No Conn.	NC
			5	Heater	h
			6	Heater	h
			7	Anode	a
			8	Screen	g2
			9	Supp.	g3
<u>CAPACITANCES (pF)</u> C in (nom.) C out (nom.) Ca, g1 (max.)			<u>DIMENSIONS</u> See BS.448/B9A/2.1 Size Ref. No. 2		
			Dimensions (mm)	Min.	Max.
			A Seated height	-	49.0
			C Diameter	19.0	22.2
			D Overall length	-	56.0
<u>NOTES</u> A. At $V_a = V_{g2} = 250V$; $I_a = 20\text{ mA}$ ($V_{g1} = -2.0V$. $I_{g2} = 5.5\text{ mA}$). B. With close fitting metal screen.			<u>MOUNTING POSITION</u> Any.		

To be performed in addition to those applicable in K1001.

Test Conditions: Unless otherwise specified.									
	Vh(V)	Va(V)	Vg2(V)	Vg3(V)	Vg1	R _{g2}	R _k	C _k	C _{g2}
	6.3	300	300	0	0	4kΩ	100Ω	1000pF	100pF
Test :	Test Conditions		AQL %	Insp. Level	Symbol	Limits			Units
						Min.	Bogey	Max.	
a	Electrode Insulation	Vh = 5.3V Note 1. Vg1 to all = -100V Vg2 to all = -300V Vg3 to all = -300V Va to all = -300V		100% 100% 100% 100%	R R R R	100 100 100 100	- - - -	- - - -	MΩ MΩ MΩ MΩ
b	Reverse Grid Current	R _{g1} = 9.1 kΩ C _g = 100 pF.		100%	Ig1	-	-	1.0	μA
c	Emission	Ik = 150 mA. Note 3.		100%	Va	-	-	15	V
d	Heater Current		1.5	I	Ih	540	600	660	mA
e	hk Leakage Current	Vhk = ± 100V Note 2	1.5	I	Ihk	-	-	10	μA
f	Mutual Conductance		1.5	I	gm	10.8	14.0	17.2	mA/V
g	Anode Current (1)		1.5	I	Ia(1)	13.5	17.0	20.5	mA
h	Anode Current (2)	Vg1 = -11V.	1.5	I	Ia(2)	-	-	100	μA
j	g3 Cut Off	Vg3 = -120V.	1.5	I	Ia	-	-	100	μA
k	Screen Current		1.5	I	Ig2	3.4 4.2	4.5 5.5	5.6 6.8	mA
l	Capacitances	Measured on 1 Mc/s bridge. Valve mounted in a fully shielded socket. Valve screened. Note 4.	6.5	IC	C in C out Cag1	11.4 2.4 -	13.0 3.0 -	14.6 3.6 0.015	pF pF pF
NOTES									
1. Heater and Cathode strapped and considered as a single electrode.									
2. Heater positive and negative successively.									
3. The anode, screen grid, and control grid electrodes shall be strapped.									
4. Capacitance connections shall be:									
Test	H.P.	IP			E				
C in	2	1,3,4,5,6,8,9,C.			7				
Cout	7	1,3,4,5,6,8,9,C.			2				
Cag1	2	7			1,3,4,5,6,8,9,C.				

ELECTRONIC VALVE SPECIFICATION

SPECIFICATION CV.5060

ISSUE 2 DATED 1.3.59.

AMENDMENT No.1

Page 2

Test Conditions - Add beneath "unless otherwise specified":-

Rg 2 Cg 2

9.1 K Ω 100 μ F

Test Clause 'b' In column headed "Test Conditions" delete
all reference to Rg1 and Cg

Note 3 - Amend to read:-

"The anode, screen grid, suppressor grid
and control grid electrodes shall be
strapped".

July 1959
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Royal Aircraft Establishment

✓ AA

ELECTRONIC VALVE SPECIFICATIONS
SPECIFICATION MOS/CV5060 ISSUE No. 2 DATED 1.3.59
AMENDMENT No. 2

- (i) Page 1. Specification Title: Delete 'MOS/CV5060' and substitute MOA/CV5060'
- (ii) Page 2. Test Conditions: Amend 'Rg2=9.1k Ω ' (inserted by Amendment No. 1) to read 'Rg2=11.1k Ω '.
- (iii) Page 2. Test Clause (k) Screen Current: In the column headed "Limits" amend Min., 4.2; Bogey, 5.5; and Max., 6.8; to read 3.4; 4.5; and 5.6 respectively.

May, 1964

T.V.C. Office for
R.A.E.

✓ AMH
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