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=9.1kΩ' (inserted by Amendment No. 1) to read 'Rg2=11.1kΩ'.

(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.

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

May, 1964

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

VALVE ELECTRONIC CV5060

Specification MOS(A)/CV5060
Issue 1 Dated 9.11.56.
To be read in conjunction with BS.448, BS.1409 and K1001

SECURITY	
Specification	Valve
UNCLASSIFIED	UNCLASSIFIED

TYPE OF VALVE - Pentode Wide Band R.F. and Video Amplifier

CATHODE - Indirectly heated

ENVELOPE - Glass

PROTOTYPE - Z.759

MARKING

See K1001/4

BASE

BS.448/B9A

RATING

(All limiting values are absolute)

			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.6	
Max. Operating Anode Voltage	(V)	300	
Max. Operating Screen Voltage	(V)	250	
Max. Anode Dissipation	(W)	5	
Max. Screen Dissipation	(W)	1.75	
Max. Heater - Cathode Voltage	(V)	150	
Max. Bulb Temperature	(°C)	250	
Mutual Conductance	(mA/V)	15	A
Anode Impedance	(MΩ)	0.5	A

CAPACITANCES (pF)

C in (nom.)	13.0	B
C out (nom.)	3.0	B
Ca,g1 (max.)	0.015	B

CONNECTIONS

Pin	Electrode	
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

DIMENSIONS

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

MOUNTING POSITION

Any

NOTES

A. At Va = Vg2 = 250V; Ia = 20 mA (Vg1 = -2.0V. Ig2 = 5.5 mA).

B. With close fitting metal screen.

CV5060

Test Conditions - unless otherwise specified

Vh(V)	Va(V)	Vg2(V)	Vg3(V)	Ia(mA)
6.3	250	250	0	20

	Test	Test Conditions	AQL	Insp. Level	Sym-bol	Limits Min.	Limits Bogey	Limits Max.	Units
a	Electrode Insulation	Vh = 6.3V 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	Rg1 = 500 kΩ max.		100%	Ig1	-	-	1.0	µA
c	Cathode Current	Va = Vg2 = Vg1 = 15V D.C.		100%	Ik	150	-	-	mA
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	Vg1 = -2V Grid Swing ± 0.5V	1.5	I	gm	11.2	15	18.3	mA/V
g	(1) g1 Volts	Ia = 20 mA	1.5	I	-Vg1	1.3	2.0	2.7	V
h	(2) g1 Volts	Ia = 0.2 mA	1.5	I	-Vg1	-	-	8.0	V
j	**g3 Cut Off**	Vg3 = -120V; Vg1 = -3.5V	1.5	I	Ia	-	-	100	µA
k	Screen Current		1.5	I	Ig2	4.1	5.5	6.9	mA
l	Capacitances	Measured on 1 Mc/s bridge. Valve mounted in a fully shielded socket. Valve screened	6.5	IC	C in C out Ca,g1	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.