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

VALVE ELECTRONIC **CV 2433**

SPECIFICATION M.O.S./CV.2433	SECURITY	
	SPECIFICATION	VALVE
ISSUE 1 DATED 17.2.58.	Unclassified	Unclassified
To be read in conjunction with BS.448, BS.1409 and K.1001.		

TYPE OF VALVE: Subminiature variable-mu Pentode.

CATHODE: Directly heated.

ENVELOPE: Glass metallised.

PROTOTYPE: VX.8172/DF.63.

MARKING

See K1001/4 except that the valve shall be marked with the CV Number, Factory and date code only.

RATINGS

(All limiting values are absolute)

			NOTE
Filament Voltage	(V)	1.25	
Filament Current	(mA)	25	
Max. Anode Voltage	(V)	100	
Max. Screen Voltage	(V)	100	
Anode Current	(mA)	1.7	B
Screen Current	(mA)	0.49	B
Mutual Conductance	(mA/V)	0.85	B
Anode Impedance	(MΩ)	1.6	B

BASE

B5G/F.
See drawing on page 3.

CONNECTIONS

PIN	ELECTRODE	
1	Anode	a
2	Screen	g2
3	Filament	-f,m
4	Control grid	g1
5	Filament and Suppressor NOTE C	+f,g3

CAPACITANCES (pF)

Cag1 (max.)	0.01
C out (nom.)	3.5
C in (nom.)	3.0

DIMENSIONS

See drawing on page 3.

NOTES

A. Measured at Va = 67.5, Vg2 = 67.5, Vg1 = 0.

B. Sharp bends in valve leads must not be made closer than 1.5 mm to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm to the seal.

C. Lead 1 shall be indicated by a red dot.

To be performed in addition to those applicable in K.1001.

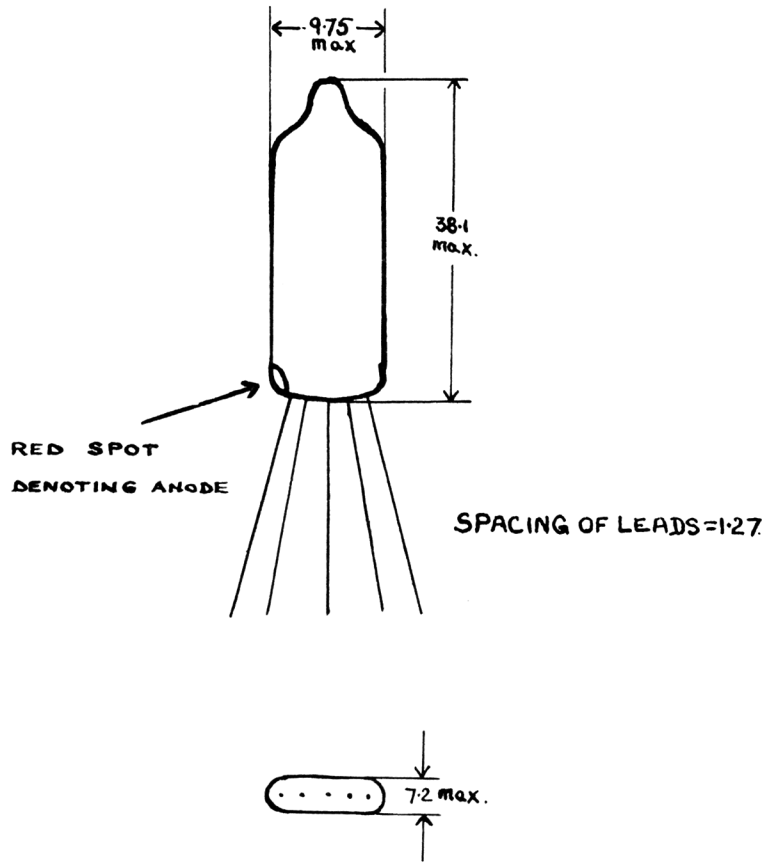
Test Conditions					Test	Limits Min.	Limits Max.	No. Tested	Note
a	Measured on 1 Mc/s Bridge with the valve mounted in a fully shielded socket.				Cag (pF)	-	0.01	T.A.	1
					C in (pF)	2.5	3.5	6 per week	
					C out (pF)	3.0	4.0	6 per week	
	Vf	Va	Vg2	Vg1					
b	1.25				If (mA)	22	28	100%	
c	1.25	67.5	67.5	0	Ia(1) (mA)	1.2	2.2	100%	
d	1.25	67.5	67.5	0	Ig2 (mA)	0.34	0.64	100%	
e	1.25	67.5	67.5	-1.5	Rev. Ig1 (μA)	-	0.5	100%	
f	1.25	67.5	67.5	0	gm (mA/V)	0.6	1.1	100%	
g	1.0	67.5	67.5	0	gm (mA/V)	0.5	-	100%	
h	1.25	67.5	67.5	-8.5	Ia(2) (μA)	80	240	100%	

NOTES

1. Pin Connections.

Test	HP	LP	E
Cag	1	4	2,3,5.
C in	4	2,3,5.	1
C out	1	2,3,5.	4

CV 2433



THE LEADS SHALL BE FLEXIBLE TINNED 26-28 S.W.G. COPPER CLAD NICKEL IRON WIRE AT LEAST 38 M.M. IN LENGTH

OUTLINE DRAWING.

ALL DIMENSIONS IN M.M.