

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

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

TYPE OF VALVE: Subminiature variable-mu Pentode. CATHODE: Directly heated. ENVELOPE: Glass metallised. PROTOTYPE: VX.8172/DF.63.	<u>MARKING</u> See K1001/4 except that the valve shall be marked with the CV Number, Factory and date code only.
---	---

<u>RATINGS</u> (All limiting values are absolute)	<u>BASE</u> B5G/F. See drawing on page 3.
--	---

			<u>CONNECTIONS</u>	
			PIN	ELECTRODE
Filament Voltage (V)	1.25		1	Anode a
Filament Current (mA)	25		2	Screen g2
Max. Anode Voltage (V)	100		3	Filament -f,m
Max. Screen Voltage (V)	100		4	Control grid g1
Anode Current (mA)	1.7	B	5	Filament and Suppressor +f,g3
Screen Current (mA)	0.49	B		
Mutual Conductance (mA/V)	0.85	B		
Anode Impedance (MΩ)	1.6	B		
			NOTE C	

<u>CAPACITANCES (pF)</u>		<u>DIMENSIONS</u> See drawing on page 3.
Cag1 (max.)	0.01	
C out (nom.)	3.5	
C in (nom.)	3.0	

<u>NOTES</u>
A. Measured at $V_a = 67.5$, $V_{g2} = 67.5$, $V_{g1} = 0$.
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.

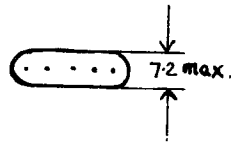
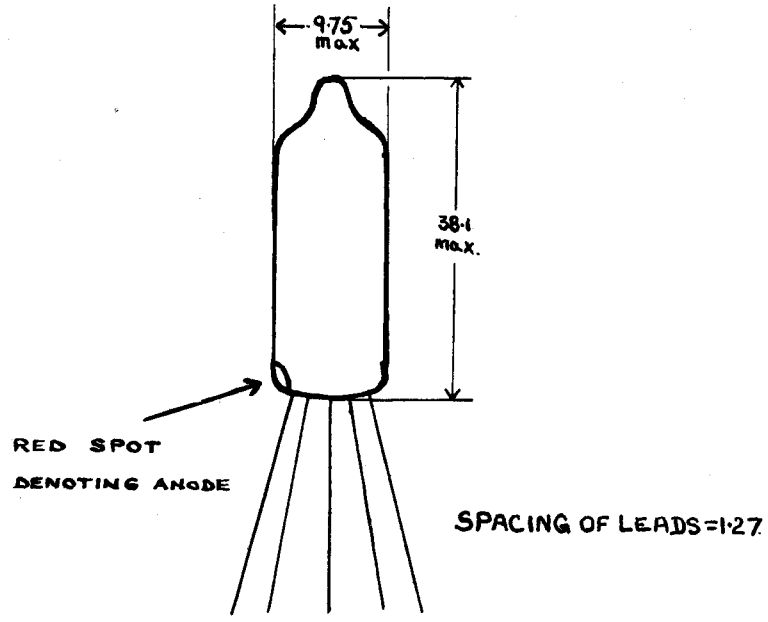
To be performed in addition to those applicable in K.1001.

Test Conditions					Test	Limits		No. Tested	Note
						Min.	Max.		
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	
b	Vf	Va	Vg2	Vg1	If (mA)	22	28	100%	
	1.25								
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



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.

CV 2433/1/3.