

MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV1338/Issue 4 Dated 18.4.46 To be read in conjunction with K1001	<u>SECURITY</u> <u>Specification</u> <u>Valve</u> Restricted Restricted
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→ indicates a change

<u>TYPE OF VALVE:-</u> Variable mu H.F. pentode.		<u>MARKING</u> See K1001/4	
<u>CATHODE:-</u> Indirectly heated.			
<u>ENVELOPE:-</u> Metallised			
<u>PROTOTYPE:-</u> 220 VPT			
<u>RATING</u>		<u>BASE</u> B7	
Heater voltage (V)	2.0	Pin	Electrode
Heater current (A)	0.21		1 Metallising
Max. anode voltage (V)	150		2 Anode
Max. screen voltage (V)	60		3 Suppressor Grid
Mutual conductance (mA/V)	1.0		4 Heater
			5 Heater
			6 Cathode
<u>CAPACITANCES (pF)</u>		T.C.	7 Screen grid
Cag (max)	0.02		Control grid
Cae	7.5		
Cge	4.15	<u>TOP CAP</u> See K1001/AI/D5.1	
<u>NOTES</u>		<u>DIMENSIONS</u> See K1001/AI/D1	
A. Measured at $V_a = 150V$ $V_{g2} = 60V$ $V_{g1} = 0V$		<u>Dimension</u>	<u>Min.</u> <u>Max.</u>
This valve type is obsolete and this specification is for record purposes only.		A mm	105 112
		B mm	- 39
		L mm	90 96

TESTS

To be performed in addition to those applicable in K1001

	Test conditions					Test	Limits		No. Tested	
							Min.	Max.		
a	See K1001/ATII					Capacitances(pF)				
	Links to H.P.	Links to L.P.	Links to E.							
	2	TC1	1,3,4,5,6,7,8,9,10, TC2							
	2	1,3,4,5,6,7	8,9,10,TC1, TC2							
	TC1	1,3,4,5,6,7	2,8,9,10 TC2			(i) Cag	-	0.02	T.A.	
						(ii) Cae	6.0	9.0	6	
						(iii) Cge	3.3	5.0	per week	
b	Vh	Va	Vg1	Vg2	Vg3	Th	(A)	0.19	0.23	100% or S
	2.0	-	-	-	-					
c	2.0	150	0	60	0	Ia	(mA)	2.7	5.3	100%
d	2.0	150	0	60	0	Ig2	(mA)	-	1.5	100%
e	2.0	150	0 to -1	60	0	gm	(mA/V)	0.8	1.4	100%
f	2.0	150	-1	60	0	Rev Ig	(uA)	-	1.0	100%
g	2.0	150	-15	60	0	Ia	(mA)	0.01	0.25	100%
h	<u>Heater-cathode insulation.</u>					K1001/5.3 shall apply except that applied voltage shall be not less than 30 volts.				