

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> Restricted	<u>Valve</u> Restricted

→ 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>		Note	<u>BASE</u> B7	
Heater voltage (V)	2.0	A	Pin	
Heater current (A)	0.21		Electrode	
Max. anode voltage (V)	150		1. Metallising	
Max. screen voltage (V)	60		2. Anode	
Mutual conductance (mA/V)	1.0		3. Suppressor Grid	
<u>CAPACITANCES (pF)</u>			4. Heater	
Cag (max)	0.02		5. Heater	
Cae	7.5		6. Cathode	
Cge	4.15		7. Screen grid	
			T.C. Control grid	
<u>NOTES</u>		<u>TOP CAP</u> See K1001/AI/D5.1		
A. Measured at Va = 150V Vg2 = 60V Vg1 = 0V		<u>DIMENSIONS</u> See K1001/AI/D1		
This valve type is obsolete and this specification is for record purposes only.		Dimension	Min.	
		Max.		
		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.		
	See K1001/ATII					Capacitances (pF)				
	Links to H.P.	Links to L.P.	Links to E.							
a	2	TC1	1,3,4,5,6, 7,8,9,10, TC2			(i) Cag	-	0.02	T.A.	
	2	1,3,4,5, 6,7	8,9,10,TC1, TC2			(ii) Cae	6.0	9.0	6	
	TC1	1,3,4,5, 6,7	2,8,9,10 TC2			(iii) Cge	3.3	5.0	per week	
b	Vh	Va	Vg1	Vg2	Vg3	Ih	(A)	0.19	0.23	100% or 8
	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.									