

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

Specification MOS/CV1330/Issue 4. Dated:- 17.6.46. 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> H. F. Pentode <u>CATHODE:-</u> Indirectly heated <u>ENVELOPE:-</u> Glass-metallised <u>PROTOTYPE:-</u> TSPL		<u>MARKING</u> See K1001/4		
<u>RATING</u>		Note	<u>BASE</u> B7	
Heater voltage (V)	4.0	A	Pin	Electrode
Heater current (A)	1.4		1	Metallising
Max. anode voltage (V)	250		2	Anode
Max. screen voltage (V)	250		3	Suppressor Grid
Mutual conductance (mA/V)	4.73		4	Heater
			5	Heater
<u>CAPACITANCES (pF)</u>			6	Cathode
C <sub>ag</sub> (max.)	0.015		7	Screen Grid
C <sub>ae</sub>	8.3		T.C.	Control Grid
C <sub>ge</sub>	9.0			
<u>NOTES</u>		<u>TOP CAP</u> See K1001/AI/D 5.1		
A. Measured at $V_a = 200$ , $V_{g2} = 170$ , $V_{g1} = -1$ .		<u>DIMENSIONS</u> See K1001/AI/D1		
This valve type is obsolete and this specification is for record purposes only.		<u>Dimensions</u>	<u>Min.</u>	<u>Max.</u>
		A mm	-	135
		B mm	-	46

TESTS

To be performed in addition to those applicable in K1001.

	Test conditions					Test	Limits		No. tested		
							Min.	Max.			
a	See K1001/AIII					<u>CAPACITANCES (pF)</u>		T.A.			
	Links to H.P.	Links to L.P.	Links to E			(i) Cag	-		0.015		
	2	TC1	1,3,4,5,6,7,8,9,10,TC2.								
	2	1,3,4,5,6,7.	8,9,10,TC1,TC2.							(ii) Cae	7.45
TC1	1,3,4,5,6,7.	2,8,9,10,TC2.			(iii) Cge			8.1		9.9	
b	Vh	Va	Vg3	Vg2	Vg1	Ih (A)	1.3	1.5	100% or 3		
	4.0	-	-	-	-						
c	4.0	200	0	170	-2	Ia (mA)	4.1	8.9	100%		
d	4.0	200	0	170	-2	Ig2 (mA)	0.5	1.5	10% (50)		
e	4.0	200	0	170	-1	gm (mA/V) (Grid swing ± 1 volt)	4.0	-	100%		
f	4.0	200	0	170	-2	Rev. Ig (uA)	-	1.5	100%		
g	4.0	200	0	170	-12	Ia (mA)	-	0.1	100%		
h	4.0	200	0	170	-20	Ig (uA)	-	0.3	10% (50)		