

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

Specification MOS/CV1330/Issue 4

Dated:- 17.6.46.

To be read in conjunction with K1001.

SECURITY

Specification

Valve

Restricted

Restricted

—→ indicates a change

<u>TYPE OF VALVE:-</u> H. F. Pentode			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated			See K1001/4		
<u>ENVELOPE:-</u> Glass-metallised					
<u>PROTOTYPE:-</u> TSP4					
<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	
			6	Cathode	
			7	Screen Grid	
			T.C.	Control Grid	
<u>CAPACITANCES (pF)</u>			<u>TOP CAP</u>		
Cag (max.)	0.015		See K1001/AI/D 5.1		
Cae	8.3		<u>DIMENSIONS</u>		
Cge	9.0		See K1001/AI/D1		
<u>NOTES</u>			Dimensions		
A. Measured at $V_a = 200$, $V_{g2} = 170$, $V_{g1} = -1$.			Min.		
			Max.		
This valve type is obsolete and this specification is for record purposes only.			A mm		
			B mm		
			135		
			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</u> (pF)			
	Links to H.P.	Links to L.P.	Links to E						
	2	TC1	1,3,4,5,6,7,8,9,10,TC2.			(i) Cag	-	0.015	T.A.
	2	1,3,4,5,6,7.	8,9,10,TC1,TC2.			(ii) Cae	7.45	9.15	6 per week
	TC1	1,3,4,5,6,7.	2,8,9,10,TC2.			(iii) Cge	8.1	9.9	
b	Vh	Va	Vg3	Vg2	Vg1				
	4.0	-	-	-	-	Ih (A)	1.3	1.5	100% or S
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)