

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

Specification MOS/CV 1324/Issue 4. Dated 7.1.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	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> Metallised					
<u>PROTOTYPE:-</u> SP4					
<u>RATING</u>		Notes	<u>BASE</u>		
			B7		
Heater voltage (V)	4.0	A A	Pin	Electrode	
Heater current (A)	1.1		1	Metallising	
Max. Anode voltage (V)	200		2	Control Grid	
Max. Screen voltage (V)	100		3	Suppressor Grid	
Mutual conductance (mA/V)	2.3		4	Heater	
Anode impedance (MΩ)	2.2		5	Heater	
<u>CAPACITANCES (pF)</u>			6	Cathode	
(Max. values)			7	Screen Grid	
C _{ag}	0.004		T.C.	Anode	
C _{ae}	14.0		<u>TOP CAP</u>		
C _{ge}	14.0		See K1001/AI/D5.1.		
<u>NOTES</u>			<u>DIMENSIONS</u>		
A. Measured at V _a = 200, V _{g2} = 100; V _{g1} = -2.			See K1001/AI/D1.		
This valve type is obsolete and this specification is for record purpose only.			Dimension	Min.	Max.
			A mm	-	140
			B mm	-	51
			L mm	-	124

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested	
							Min.	Max.		
a	See K1001/ATII					<u>CAPACITANCES</u> (pF)			6 per week	
	Links to H.P.	Links to L.P.	Links to E.		(i) Cag					
	TC1	2	1,3,4,5, 6,7,8,9, 10,TC2.							
	TC1	1,3,4,5, 6,7.	2,8,9, 10,TC2.							(ii) Cae
	2	1,3,4,5, 6,7.	8,9,10, TC1,TC2..							(iii) Cge
b	Vh	Va	Vg2	Vg1	Vg3	Ih (A)	0.99	1.21	100% or S	
	4.0	-	-	-	-					
c	4.0	200	100	-15	0	Ia (mA)	2.8	5.6	100%	
d	4.0	200	100	-1.5	0	Ig2 (mA)	1.3	2.6	10% (50)	
e	4.0	200	100	-1.5 to -2.5	0	gm (mA/V)	1.9	2.8	100%	
f	4.0	200	100	-1.5	0	Rev. Ig. (μA)	-	1.0	100%	
g	4.0	200	100	-1.5	Read	Suppressor Char- acteristics. Negative bias applied to the suppressor grid such that the anode current is not greater than 0.1 mA.	-	-45	10% (50)	