

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> Restricted	<u>Valve</u> 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
			6	Cathode
<u>CAPACITANCES (pF)</u> (Max. values)			7	Screen Grid
C _{ag}	0.004		T.C.	Anode
C _{ae}	14.0		<u>TOP CAP</u> See K1001/AI/D5.1.	
C _{ge}	14.0		<u>DIMENSIONS</u> See K1001/AI/D1.	
<u>NOTES</u>				
A. Measured at V _a = 200, V _{g2} = 100; V _{g1} = -2.				
This valve type is obsolete and this specification is for record purpose only.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/AIII					<u>CAPACITANCES</u>			6 per week ←
	Links to H.P.	Links to L.P.	Links to E.			(PF)			
	TC1	2	1,3,4,5, 6,7,8,9, 10,TC2.			(i) Cag	-	0.004	
	TC1	1,3,4,5, 6,7.	2,8,9, 10,TC2.			(ii) Cae	-	14.0	
	2	1,3,4,5, 6,7.	8,9,10, TC1,TC2..			(iii) Cge	-	14.0	
b	Vh 4.0	Va -	Vg2 -	Vg1 -	Vg3 -	Ih (A)	0.99	1.21	100% or S
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 Characteristics. Negative bias applied to the suppressor grid such that the anode current is not greater than 0.1 mA.	-	-45	10% (50)