

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

Specification MOS/CV1322/Issue 4.

Dated:- 19.6.46

To be read in conjunction with K1001.

SECURITYSpecificationValve

Restricted

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→ indicates a change

<u>TYPE OF VALVE:-</u> H. F. Pentode <u>CATHODE:-</u> Directly heated <u>ENVELOPE:-</u> Glass-metallised <u>PROTOTYPE:-</u> SP210			<u>MARKING</u> See K1001/4		
<u>RATING</u>		Note	<u>BASE</u> B7		
Filament Voltage (V) 2.0 Filament Current (A) 0.1 Max. Anode Voltage (V) 150 Max. Screen Voltage (V) 150 Anode Current (mA) 2.85 Mutual Conductance (mA/V) 1.45 Anode Impedance (M Ω) 2.0			A A A	Pin	Electrode
<u>CAPACITANCES (pF)</u> C _{ag} (max.) 0.01 C _{se} 10.5 C _{ge} 10.0 C _{g3e} 13.5				1	Metallising
			2	Control grid	
			3	Suppressor grid	
			4	Filament	
			5	Filament	
			6	No connection	
			7	Screen grid	
			T.C.	Anode	
			<u>TOP CAP</u> See K1001/AI/D5.2		
			<u>DIMENSIONS</u> See K1001/AI/D1		
<u>NOTES</u>			Dimension	Min.	Max.
A. Measured at $V_a = V_{g2} = 120$, $V_{g1} = 0$. <div style="border: 1px solid black; padding: 5px; width: fit-content; margin: 10px auto;"> This valve type is obsolete and this specification is for record purposes only. </div>			A mm	115.5	127.5
			L mm	100.5	111.5
			B mm	35	39

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.			Cag	-	0.01	T.A.
	TC1	2	1,3,4,5,6, 7,8,9,10, TC2.						
	TC1	1,3,4,5, 6,7.	2,8,9,10, TC2.						
	2	1,3,4,5, 6,7.	8,9,10, TC2.						
3	1,2,4,5, 6,7.	8,9,10, TC1,TC2.							
	Vf	Va	Vg2	Vg1	Vg3				
b	2.0	-	-	-	-	If (A)	0.09	0.11	10% or S
c	2.0	120	120	0	0	Ia (mA)	1.95	3.75	100%
d	2.0	120	120	0	0	Ig2 (mA)	0.5	1.2	100%
e	2.0	120	120	0 to -1	0	gm (mA/V)	1.15	1.8	100%
f	2.0	120	120	-1	0	Rev. Ig (uA)	-	1.0	100%
g	2.0	120	120	-6	-	Ia (mA)	-	0.1	10% (50)
h	2.0	120	120	0	Read	Vg3 (Adjusted so that anode curr- ent is 50% of that obtained in Clause c)	-15	-25	0.1% (4)