

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

Specification MOS/CV1879/Issue 2 Dated 14/11/51 To be read in conjunction with K1001.	<u>SECURITY</u> <u>Specification</u> UNCLASSIFIED <u>Valve</u> UNCLASSIFIED
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—————> 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-unmetallised					
<u>PROTOTYPE</u> - MS/Pen T.					
<u>RATING</u>		<u>Note</u>	<u>BASE</u>		
Heater Voltage (V)		4.0	B7		
Heater Current (A)		1.0			
Max. Peak Anode Voltage (kV)		1.0	Pin	Electrode	
Max. Screen Voltage (V)		125	1	No connection	
Max. Anode Dissipation (W)		3.0	2	Control grid	
Max. Screen Dissipation (W)		1.0	3	Suppressor grid	
Max. Grid Resistance (M Ω)		2.0	4	Heater	
Mutual Conductance (mA/V)		2.8 A	5	Heater	
Anode Impedance (M Ω)		0.6 A	6	Cathode	
			7	Screen grid	
			T.C.	Anode	
<u>CAPACITANCES (pF)</u>			<u>TOP CAP</u>		
C _{ae}		5.0	See K1001/AI/D5.1		
C _{ge}		12.0			
C _{ag} (max.)		0.02			
<u>NOTE</u>			<u>DIMENSIONS</u>		
A. V _a = 250, V _{g2} = 125, V _{g1} = 2.0, I _a = 5.4 mA.			See K1001/AI/D1.		
			Dimension	Min.	Max.
			A (mm)	120	126
			B (mm)	-	45

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested		
							Min.	Max.			
a	See K1001/AIII					CAPACITANCES (pF)					
	Links to H.P.	Links to L.P.	Links to E.								
	TC1	1,3,4,5,6,7	2,8,9,10, TC2	Cae	-					6.0	T.A.
	2	1,3,4,5,6,7	8,9,10 TC1, TC2	Cge	-					15.0	T.A.
	TC1	2	1,3,4,5,6, 7,8,9,10, TC2	Cag	-	0.02	T.A.				
	Vh	Va	Vg2	Vg1	Ia (mA)						
b	4.0	0	0	0	0	Ih (A)	0.9	1.1	100% or S		
c	4.0	200	100	-1.5	-	Ia (mA)	3.2	6.4	100%		
d	4.0	200	100	-1.5	-	Ig2 (mA)	-	2.0	100% or S		
e	4.0	200	100	-1.5	-	gm (mA/V)	2.2	3.4	100%		
	Peak grid swing $\pm$ 0.5V max.										
f	4.0	200	100	-1.5	-	Reverse Igl (uA)	-	1.0	100%		
g	4.0	200	100	-6.0	-	Ia (mA)	-	0.2	100%		
h	4.0	-	100	Tied to cathode thro' 0.1M Ω	2.0	Va (V)	-	9.0	100%		
j	4.0	1000 thro' 1M Ω	100	-15	-	Ia (uA)	-	1.0	100%		