

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

Specification MOS/CV1340/Issue 5 Dated 4.1.46. 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> Pentode or Beam Tetrode			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated			See K1001/4		
<u>ENVELOPE:-</u> Glass-ummattalised					
<u>PROTOTYPE:-</u> K144 (modified)					
<u>RATING</u>			<u>BASE</u>		
		Note	B7		
Heater voltage (V)	4.0		Pin	Electrode	
Heater current (A)	2.0		1	No Connection	
Max. Anode voltage (V)	400		2	Control Grid	
Max. Screen voltage (V)	300		3	Suppressor or Beam Plates	
Mutual conductance (mA/V)	6.3	A	4	Heater	
<u>CAPACITANCES (pF)</u>			5	Heater	
C _{ag} (max.)	1.5		6	Cathode	
C _{ae} (max.)	11.0		7	Screen Grid	
C _{ge} (max.)	23.0		T.C.	Anode	
<u>NOTES</u>			<u>TOP CAP</u>		
A. Measured at $V_a = V_{g2} = 250$ $I_a = 85$ mA.			See K1001/AI/D5.1		
			<u>DIMENSIONS</u>		
This valve type is obsolete and this specification is for record purposes only.			See K1001/AI/D1		
			Dimension	Min.	Max.
			A mm	-	153
			B mm	-	56.5
			L mm	-	137

TESTS

To be performed in addition to those applicable in K1001

	Test conditions					Test	Limits		No. Tested	Notes			
							Min.	Max.					
a	See K1001/AIII					Capacitances (pF)			6	per week			
	Links to H.P.	Links to L.P.	Links to E.								(i) Cag	-	1.5
	TC1	2	1,3,4,5, 6,7,8,9, 10,TC2.								(ii) Cae	-	11.0
	TC1	1,3,4, 5,6,7.	2,8,9,10, TC2.								(iii) Cge	-	23.0
	2	1,3,4, 5,6,7.	8,9,10, TC1,TC2.										
b	Vh	Va	Vg2	I _a (mA)	Vg1								
	4.0	-	-	-	-	I _h (A)	1.8	2.2	100% or S				
	4.0	250	250	85	Read	Vg1 (V)	-10	-20	100%				
	4.0	250	250	85	-	Ig2 (mA)	-	11.0	100%				
	4.0	250	250	85	-	g _m (mA/V)	4.4	8.2	100%				
	4.0	250	250	85	-	Rev. Ig1 (μA)	-	2.5	100%				
	4.0	Read	50	5	0	Va (V)	2.5	6.75	5%	2			
	4.0	4000	50	50 μA	Read	Vg1 (V)	-	-65	100%	1 and 3			

NOTES

- H.T. applied through 1 megohm resistance, only long enough for measurement to be made.
- In the event of any failures a further 5% shall be tested. If any failures occur in the second batch the whole consignment shall be tested.
- If the valve during processing is subjected to 4000V, this test need not be applied.