

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
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—→ 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-unmetallised						
<u>PROTOTYPE:-</u> KT44 (modified)						
<u>RATING</u>			Note	<u>BASE</u>		
				B7		
Heater voltage	(V)	4.0	A	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		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		
<div>This valve type is obsolete and this specification is for record purposes only.</div>				<u>DIMENSIONS</u>		
				See K1001/AI/D1		
				<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
				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)				
	Links to H.P.	Links to L.P.	Links to E.							
	TC1	2	1,3,4,5, 6,7,8,9, 10,TC2.		(i) Cag	-	1.5		6	
	TC1	1,3,4, 5,6,7.	2,8,9,10, TC2.		(ii) Cae	-	11.0		per	
	2	1,3,4, 5,6,7.	8,9,10, TC1,TC2.		(iii) Cge	-	23.0		week	
b	Vh	Va	Vg2	Ia (mA)	Vg1					
	4.0	-	-	-	-	Ih (A)	1.8	2.2	100% or S	
c	4.0	250	250	85	Read	Vg1 (V)	-10	-20	100%	
d	4.0	250	250	85	-	Ig2 (mA)	-	11.0	100%	
e	4.0	250	250	85	-	gm (mA/V)	4.4	8.2	100%	
f	4.0	250	250	85	-	Rev. Ig1 (μA)	-	2.5	100%	
g	4.0	Read	50	5	0	Va (V)	2.5	6.75	5%	2
h	4.0	4000	50	50 μA	Read	Vg1 (V)	-	-65	100%	1 and 3

NOTES

1. H.T. applied through 1 megohm resistance, only long enough for measurement to be made.
2. 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.
3. If the valve during processing is subjected to 4000V, this test need not be applied.