

VALVE ELECTRONIC**CV391**MINISTRY OF SUPPLY (S.R.D.E.)

Specification MOS/CV391/Issue 6 Dated:- 6.6.52. To be read in conjunction with K1001	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u></td><td><u>Valve</u></td></tr> <tr> <td>Unclassified</td><td>Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u>	<u>Valve</u>	Unclassified	Unclassified
<u>SECURITY</u>							
<u>Specification</u>	<u>Valve</u>						
Unclassified	Unclassified						

→ Indicates a change

<u>TYPE OF VALVE:-</u> Beam power amplifier			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated			See K1001/4		
<u>ENVELOPE:-</u> Glass-ummetallised					
<u>PROTOTYPE:-</u> LS650					
<u>RATING</u>			Note	<u>BASE</u> B8G	
Heater voltage (V) 6.3			A A	Pin	Electrode
Heater current (A) 0.9				1	Heater
Max. anode voltage (V) 600				2	Anode
Max. screen voltage (V) 300				3	Screen grid
Max. anode current (mA) 120				4	Cathode & Beam plates
				5	Control grid
				6	Control grid
				7	Cathode & beam plates
Max. anode dissipation (W) 25			8	Heater	
Max. screen dissipation (W) 4.5			<u>DIMENSIONS</u>		
Mutual conductance (mA/V) 6.0			See K1001/AI/D1		
Inner μ 9.0					
Max. frequency for above ratings (Mc/s) 60					
<u>CAPACITANCES (pF)</u>					
Cag 0.13					
Cge 12.0					
Cae 8.5					
			<u>NOTES</u>		
			A. Measured at $V_a = 300V$ $V_{g2} = 250V$ $I_a = 72$ mA		

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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 (pF)</u>			6 per week
	Links to HP	Links to LP	Links to E						
	2	5, 6	1,3,4,7, 8,9,10, TC ₁ , TC ₂						
	2	1,3,4,7, 8	5,6,9,10, TC ₁ , TC ₂						
	5, 6	1,3,4,7, 8	2,9,10 TC ₁ , TC ₂			(i) C _{ag}	-	0.2	
						(ii) C _{ae}	-	10.0	
						(iii) C _{ge}	-	13.0	
b	V _h	V _a	V _{g2}	V _{g1}	I _a (mA)	I _h (A)	0.8	1.0	100%
	6.3	-	-	-	-				
c	6.3	500	300	Ad-just	50	Rev. I _{g1} (μA) (Note 1)	-	5.0	100%
d	6.3	500	300	-	28	V _{g1} (V)	-25	-40	100%
e	6.3	500	300	-	28	I _{g2} (mA)	-	2.5	100%
f	6.3	500	300	-75	-	I _a cut-off (mA)	-	1.0	100%
g	6.3	300	300	300	-	I _e (Note 2) (A)	3.5	-	100%

NOTES

1. The duration of this test shall not exceed 3 minutes. After 2 minutes the reverse current to the control grid shall not exceed the value specified and shall not be rising.
2. This test shall be carried out by the application of a 2 μsec. pulse of 300 volts peak amplitude and 50 c/s repetition frequency between the cathode and all other electrodes strapped together.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS/CV391
ISSUE 6 DATED 6.6.52

AMENDMENT No.1

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Add to Note 1:-

"If the control grid current is rising after a two minute test, the test may be continued up to eight minutes, after which time the control grid current shall not exceed the specified maximum, and shall not be rising."

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T.V.C. for S.R.D.E.