

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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N.33756/D

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

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	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

—→ Indicates a change

<u>TYPE OF VALVE</u> :- Beam power amplifier <u>CATHODE</u> :- Indirectly heated <u>ENVELOPE</u> :- Glass-urmetallised <u>PROTOTYPE</u> :- LS650		<u>MARKING</u> See K1001/4		
<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
Max. anode dissipation (W)	25		5	Control grid
Max. screen dissipation (W)	4.5		6	Control grid
Mutual conductance (mA/V)	6.0		7	Cathode & beam plates
Inner μ	9.0		8	Heater
Max. frequency for above ratings (Mc/s)	60			
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u> See K1001/AI/D1	
Cag	0.13	Dimension	Min.	Max.
Cge	12.0	A mm	-	93.0
Cae	8.5	B mm	-	31.0
		L mm	70.0	78.0
		<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			(iii) Cge	-	13.0		
b	Vh	Va	Vg ₂	Vg ₁	Ia (mA)	Ih (A)	0.8	1.0	100%
	6.3	-	-	-	-				
c	6.3	500	300	Ad- just	50	Rev. Ig ₁ (μA) (Note 1)	-	5.0	100%
d	6.3	500	300	-	28	Vg ₁ (V)	-25	-40	100%
e	6.3	500	300	-	28	Ig ₂ (mA)	-	2.5	100%
f	6.3	500	300	-75	-	Ia cut-off (mA)	-	1.0	100%
g	6.3	300	300	300	-	Ie (Note 2) (A)	3.5	-	100%

NOTES

- 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.
- 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.

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