

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

VALVE ELECTRONIC CV2101

Specification MOS/CV 2101/Issue 4 Dated:- 24.4.56. 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> Sub-miniature H.F. Pentode <u>CATHODE:-</u> Directly heated <u>ENVELOPE:-</u> Glass-unmetallised <u>PROTOTYPE:-</u> VX8017			<u>MARKING</u>		
			See K1001/4, except that the valve shall be marked with the CV No. Factory and Date Code only.		
<u>RATING</u>			<u>BASE</u> B6D		
			<u>CONNECTIONS</u>		
		Note	Pin	Electrode	
Filament Voltage (V)	1.25		1	Int. Connection	
Filament current (mA)	25		2	g1	
Max. anode voltage (V)	100		3	No Connection	
Max. screen voltage (V)	100		4	f(-), s	
Mutual conductance (mA/V)	1.0	A	5	f(+), g3	
Anode impedance (MΩ)	0.65	A	6	No Connection	
Anode current (mA)	2.0	A	7	a	
Screen current (mA)	0.55	A	8	g2	
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>		
Cag (max.)	0.015	B	See drawing page 3.		
Cae	5.1	B	Dimension	Min.	Max.
Cge	3.2	B	A	m.m.	-
			B	m.m.	9.3 10.16

NOTES

- A. Measured at $V_a = V_{g2} = 70V$, $V_{g1} = 0V$
- B. Measured with valve shielded.

A sharp bend must not be made in any valve lead closer than 1.5 mm. to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm. to the seal.

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TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested	Note
						Min.	Max.		
a	See K1001/AlII				Capacitances (Shielded)(pF)				
	Links to H.P.	Links to L.P.	Links to E.						
	7	2	1,3,4,5, 6,8						
	(i) Cag	-	0.015	T.A.					
	7	1,3,4,5, 6,8	2		(ii) Cae	4.6	5.6	6	1
	2	1,3,4,5, 6,8	7		(iii) Cge	2.7	3.7	per week	1
	Vf	Va	Vg2	Vg1					
b	1.25	-	-	-	If (mA)	22	28	100%	
c	1.25	70	70	0	Ia (mA)	1.5	2.5	100%	
d	1.25	70	70	0	Ig2 (mA)	0.4	0.7	100%	
e	1.25	70	70	-1.5	Rev. Ig1 (μA)	-	0.5	100%	
f	1.25	70	70	0	gm (mA/V)	0.75	1.25	100%	
g	1.1	70	70	0	gm (mA/V)	0.6	-	100%	
h	1.25	70	70	-6	Ia (Tail)(μA)	-	20	100%	2

NOTES

1. Capacities measured with shield round valve. All should be measured at R.F.
2. 1 Megohm protective resistance in series

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