

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

Specification MOS/CV1319/Issue 4 Dated 12.3.46 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> Variable- μ Screen Grid				<u>MARKING</u>			
<u>CATHODE:-</u> Directly heated				See K1001/4			
<u>ENVELOPE:-</u> Glass-unmetallised							
<u>PROTOTYPE:-</u> VS.2.							
<u>RATING</u>			Note	<u>BASE</u> B ₄			
Filament voltage	(V)	2.0		A A	Pin	Electrode	
Filament current	(A)	0.1	1		Screen Grid		
Max. anode voltage	(V)	150	2		Control Grid		
Max. screen voltage	(V)	70	3		Filament		
Mutual conductance	(mA/V)	1.1	4		Filament		
Anode impedance	(M Ω)	0.1	T.C.		Anode		
<u>NOTES</u>					<u>TOP CAP</u> See K1001/AI/D5.1		
A. Measured at $V_a = 150$ $V_{g2} = 70$ $V_{g1} = 0.5$				<u>DIMENSIONS</u> See K1001/AI/D1			
This valve type is obsolete and this specification is for record purposes only.				Dimension		Min.	Max.
				A mm		118	128
				B mm		-	45
				L mm		103	113

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions				Test	Limits		No. Tested
						Min.	Max.	
a	See K1001/ATII				CAPACITANCES (pF)			T.A.
	Links to H.P.	Links to L.P.	Links to E.					
	T.C.1	2	1,3,4,5,6,7, 8,9,10,TC2.	(i) Cag	-	0.015		
	T.C.1	1,3,4.	2,5,6,7,8,9, 10,TC2.	(ii) Cae	-	10.0		
	2	1,3,4.	5,6,7,8,9, 10,TC1,TC2.	(iii) Cge	-	11.0	6 per week	
b	Vf	Va	Vg2	Vg1	If (A)	0.09	0.11	100% or S
	2.0	-	-	-				
c	2.0	150	70	0	Ia (mA)	3.3	6.0	100%
d	2.0	150	70	0	Ig2 (mA)	-	3.0	100%
e	2.0	150	70	0 to -1V	gm (mA/V)	0.8	1.4	100%
f	2.0	150	70	- 1	Rev. Ig (uA)	-	0.5	100%
g	2.0	150	70	-4 to -5	gm (mA/V)	0.2	0.5	100%
h	2.0	150	70	-10	Ia (mA)	-	0.25	10% (50)