

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

Specification MOS/CV1308/Issue 4

Dated 11.2.46

To be read in conjunction with K1001

SECURITYSpecification

Restricted

Valve

Restricted

————— indicates a change

<u>TYPE OF VALVE:-</u> Double Diode Triode				<u>MARKING</u>		
<u>CATHODE:-</u> Directly heated				See K1001/4		
<u>ENVELOPE:-</u> Metallised						
<u>PROTOTYPE:-</u> L21DD						
<u>RATING</u>			Note	<u>BASE</u> B5		
Filament Voltage	(V)	2.0		Pin	Electrode	
Filament Current	(A)	0.1	1		Anode	
Max. anode voltage	(V)	150	2	Diode 1		
Mutual conductance	(mA/V)	1.85	3	Filament and		
Amplification factor		18.5	A	metallising		
Anode impedance	(Ω)	10000	A	4	Filament	
<u>CAPACITANCES (pF)</u>				5	Diode 2	
				T.C.	Control grid	
C _{ag}		3.25	<u>TOP CAP</u>			
C _{ae}		6.75	See K1001/AI/D5.1			
C _{ge}		2.25	<u>DIMENSIONS</u>			
<u>NOTES</u>			See K1001/AI/D1			
A. Measured at $V_a = 120$, $V_{g1} = -1.5$			Dimensions		Min	Max
This valve type is obsolete and this specification is for record purposes only.			A mm		-	122
			B mm		-	38
			L mm		-	106

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. tested
					Min	Max	
a	See K1001/AIII			Capacitances (pF)			
	Links to HP	Links to LP	Links to E				
	1	TC1	2,3,4,5, 6,7,8,9, 10, TC2	i Cag	2.25	4.25	6
	1	2,3,4,5	6,7,8,9, 10, TC1, TC2	ii Cae	5.25	8.25	per
	TC1	2,3,4,5	1,6,7,8, 9,10,TC2	iii Cge	1.25	3.25	week
b	Vf	Va	Vg				
	2.0	-	-	If (A)	0.09	0.11	100% or S
c	Triode Section						
	2.0	120	-3	Ia (mA)	2.4	4.2	100%
d	2.0	120	-3 to 0	Ia rise (mA)	4.4	6.6	100%
e	2.0	120	-3	Rev. Ig (μ A)	-	1.0	100%
f	2.0	120	-20	Ig (μ A)	-	0.3	100%
g	Double Diode Section						
	2.0	A positive voltage will be applied to Diode 1 such that the diode current is less than 10 μ A; the voltage will then be increased by 5 volts and the diode current shall be not less than 400 μ A. The same test will be applied to Diode 2.					100%