

VALVE ELECTRONIC **CV1374**MINISTRY OF SUPPLY (S.R.D.E.)

(ATS25)

Specification MOS/CV1374/Issue 6 Dated 4.3.46 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> Beam tetrode		<u>MARKING</u>	
<u>CATHODE:-</u> Indirectly heated		See K1001/4	
<u>ENVELOPE:-</u> Glass - unmetallised			
<u>PROTOTYPE:-</u> 807			
<u>RATING</u>		Note	<u>BASE</u> USM5
Heater voltage	(V) 6.3	A	Pin Electrode
Heater current	(A) 0.9		1 Heater
Max. anode voltage	(V) 600		2 Screen Grid
Max. screen voltage	(V) 300		3 Control Grid
Max. anode dissipation	(W) 25		4 Cathode and beam forming plates
Max. screen dissipation	(W) 3.5		5 Heater
Mutual conductance	(mA/V) 7.1		T.C. Anode
Max. signal D.C.	(mA) 120		
<u>CAPACITANCES (pF)</u>		<u>TOP CAP</u> See K1001/AI/D5.1	
Cae	8.2		
Cge	12.5		
Cag	0.2	<u>DIMENSIONS</u> See K1001/AI/D1	
<u>NOTES</u>		Dimension	Min. Max.
A. at Va = 300 V, Vg2 = 250 V, Ia = 83 mA, Vg1 = -12.5 V approx.		A mm	- 149
		B mm	- 53
		C mm	- 35
This valve type is obsolete and this specification is for record purposes only.			

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested
					Min	Max	
a	See K1001/AIII			Capacitances			6 per week
	Links to H.P.	Links to L.P.	Links to E.	(pF)			
	TC1	1,2,4,5	3,6,7,8,9,10,TC2.	(i) Cae	-	10.0	
	3	1,2,4,5	6,7,8,9,10,TC1,TC2.	(ii) Cge	-	13.7	
	TC1	3	1,2,4,5,6,7,8,9,10,TC2	(iii) Cag	-	0.35	

Before any of the following tests are made the valves shall be run for a period of 10 minutes with $V_a = 300$, $V_{g2} = 250$, $I_a = 83$ mA.

	V_h	V_a	V_{g2}	I_a (mA)				
b	6.3	0	0	-	I_h (A)	0.8	1.0	100% or S
c	6.3	300	250	83	V_{g1} (V)	-9.5	-15.5	100%
d	6.3	300	250	83	I_{g2} (mA)	-	11.0	100%
e	6.3	300	250	83	Rev. I_{g1} (uA)	-	2.5	100%
f	6.3	300	250	83	g_m (mA/V)	5.5	8.7	100%
	Peak grid swing ± 1.0 V. max.							
g	6.3	300	250	1.0	V_{g1} (V)	-	-48	100%
h	400 V applied to anode, screen and grid strapped See K1001/AV				I_e (A)	4.0	-	100%