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	SECURITY Specification Restricted Valve Restricted ←

→ indicates a change

TYPE OF VALVE:- Beam tetrode CATHODE:- Indirectly heated ENVELOPE:- Glass - unmetallised PROTOTYPE:- 807	MARKING See K1001/4 ←

RATING			Note
Heater voltage	(V)	6.3	
Heater current	(A)	0.9	
Max. anode voltage	(V)	600	
Max. screen voltage	(V)	300	
Max. anode dissipation	(W)	25	
Max. screen dissipation	(W)	3.5	
Mutual conductance	(mA/V)	7.1	A
Max. signal D.C.	(mA)	120	

CAPACITANCES (pF)	
Cae	8.2
Cge	12.5
Cag	0.2

BASE
USM5

Pin	Electrode
1	Heater
2	Screen Grid
3	Control Grid
4	Cathode and beam forming plates
5	Heater
T.C.	Anode

TOP CAP
See K1001/AI/D5.1

DIMENSIONS
See K1001/AI/D1

Dimension	Min.	Max.
A mm	-	149
B mm	-	53
C mm	-	35

NOTES

A. at Va = 300 V, Vg2 = 250 V,
Ia = 83 mA, Vg1 = -12.5 V approx.

This valve type is obsolete and this specification is for record purposes only.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 Min	Limits Max	No. Tested
a	See K1001/AIII			Capacitances (pF)			
	Links to H.P.	Links to L.P.	Links to E.				
	TC1	1,2,4,5	3,6,7,8,9,10,TC2.	(i) Cae	-	10.0	6 per week
	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 Va = 300, Vg2 = 250, Ia = 83 mA.

	Vh	Va	Vg2	Ia(mA)				
b	6.3	0	0	-	Ih (A)	0.8	1.0	100% or S
c	6.3	300	250	83	Vg1 (V)	-9.5	-15.5	100%
d	6.3	300	250	83	Ig2 (mA)	-	11.0	100%
e	6.3	300	250	83	Rev.Ig1 (uA)	-	2.5	100%
f	6.3	300	250	83	gm (mA/V)	5.5	8.7	100%
	Peak grid swing ± 1.0 V. max.							
g	6.3	300	250	1.0	Vg1 (V)	-	-48	100%
h	400 V applied to anode, screen and grid strapped See K1001/AV				Ie (A)	4.0	-	100%