

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

Specification MOS/CV1364/Issue 5 Dated:- 21.10.46 To be read in conjunction with K1001	<u>SECURITY</u>
	<u>Specification</u> <u>Valve</u> Restricted Unclassified

→ 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. anode current (mA) 120			
<u>CAPACITANCES (pF)</u>		<u>TOP CAP</u>	
C _{ae}	8.2	See K1001/AI/D5.1	
C _{ge}	12.5	<u>DIMENSIONS</u>	
C _{ag} (max.)	0.35	See K1001/AI/D1	
		Dimension	Min Max
		A mm	- 149
		B mm	- 53

NOTES

A. Va = 300, Vg2 = 250V, Ia = 83 mA, Vg1 = -16 approx.

This valve type is obsolete and this specification is for record purposes only.
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TESTS

To be performed in addition to those applicable in K1001.

	Test conditions			Test	Limits		No. tested	
					Min.	Max.		
a	See K1001/ATII			<u>Capacitances (pF)</u>				
	Links to H.P.	Links to L.P.	Links to E					
	TC1	1,2,4,5	3,6,7,8,9,10,TC2	(i) C _{ae}	-	11.0	6	
	3	1,2,4,5	6,7,8,9,10,TC1, TC2.	(ii) C _{ge}	-	14.0	per	
	TC1	3	1,2,4,5,6,7,8,9,10,TC2	(iii) C _{ag}	-	0.35	week	
Before any of the following tests are made the valve shall be run for a period of 10 minutes with V _a = 300V, V _{g2} = 250V, 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)	-12	-20	100%
d	6.3	300	250	83	I _{g2} (mA)	-	11.0	100% or S
e	6.3	300	250	83	Rev I _{g1} (uA)	-	3.0	100%
f	6.3	300	250	83	g _m (mA/V)	5.5	8.7	100%
	Peak grid swing ± 1.0V max.							
g	6.3	300	250	1.0	V _{g1} (V)	-	-55	100% or S
h	6.3	400V applied to anode screen and grid strapped			I _e (A)	4.0	-	100%
	See K1001/AV							