

MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

Specification MOSA/CV1060 Issue 8 Dated 4.8.54. To be read in conjunction with B.S.1409 and K1001	<u>SECURITY</u> Specification Valve UNCLASSIFIED UNCLASSIFIED
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→ Indicates a change

TYPE OF VALVE - Beam Tetrode			<u>MARKING</u>		
CATHODE - Indirectly Heated			See K1001/4		
BULB - Glass, unmetallised			<u>BASE</u>		
PROTOTYPE - 807			USM5		
<u>RATING</u>		Note	<u>CONNECTIONS</u>		
			Pin	Electrode	
Heater Voltage	(V) 6.3	A	1	h	
Heater Current	(A) 0.9		2	g2	
Max. Anode Voltage	(V) 600		3	g1	
Max. Screen Voltage	(V) 300		4	k and b.p.	
Max. Anode Dissipation	(W) 25		5	h	
Max. Screen Dissipation	(W) 3.5		T.C	a	
Mutual Conductance	(mA/V) 7.1		<u>PLUG TOP CAP</u>		
Max. operating frequency	(Mc/s) 120		See K.1001/A1/D5.1		
			<u>DIMENSIONS</u>		
			See K.1001/A1/D1		
<u>CAPACITANCES (pF)</u>			Dimension	Min.	Max.
C in	12.5		Amm	-	146
C out	8.2		Bmm	-	53
Ca, g1 (max.)	0.25		Cmm	-	35

NOTESA. $V_a = 300$, $V_{g2} = 250$, $I_a = 83\text{mA}$, $V_{g1} = -12.5$ Approx.

CV1060

TESTS

To be performed in addition to those applicable in K.1001

Test Conditions				Test	Limits		No. Tested	Note
					Min.	Max.		
a	Measured using Adaptor type 40, Ref.10A/13336			<u>CAPACITANCES (pF)</u>	11.5	13.5	6 per week	
	See K.1001/AIII							
	Links to H.P.	Links to L.P.	Links to E					
	3	1,2,4,5	6,7,8,9, 10, TC1, TC2					
	TC1	1,2,4,5	3,6,7,8, 9,10,TC2					
	TC1	3	1,2,4,5, 6,7,8,9, 10,TC2					
	2	3	1,4,5,6, 7,8,9, 10, TC1, TC2	Cg2g1	4.2	5.5		

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

	Vh	Va	Vg2	Ia(mA)					
b	6.3	0	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	Reverse Ig1 (μ A)	-	2.5	100%	1
e	6.3	300	250	83	Ig2 (mA)	-	10.5	100% or S	
f	6.3	300	250	83	gm (mA/V)	5.5	8.7	100%	
	Peak grid swing ± 1.0 volt max.								
g	6.3	300	250	1.0	Vg1 (V)	-	-48	100%	
h	6.3	400 volts applied to anode, screen and grid strapped. See K.1001/A5			Ie (A)	4.0	-	100%	

NOTE

1. The grid current due to ionisation shall not exceed $1.0 \mu A$.