

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

Specification MOSA/CV138 Issue 10 Dated 8.11.54 To be read in conjunction with BS.448, BS.1409 and K1001	<u>SECURITY</u>	
	Specification UNCLASSIFIED	Valve UNCLASSIFIED

—————> Indicates a change

TYPE OF VALVE - Miniature H.F. Pentode CATHODE - Indirectly Heated ENVELOPE - Glass PROTOTYPE - 6F12 R.E.T.M.A. DESIGNATION - 6AM6		<u>MARKING</u> See K.1001/4 Additional Marking 6AM6		
		<u>BASE</u> B.S.448/B7G		
		<u>CONNECTIONS</u>		
<u>RATING</u>		Note	Pin	Electrode
Heater Voltage	(V) 6.3		1	g1
Heater Current	(A) 0.3		2	k
Max. Anode Voltage (Ia = 0)	(V) 550	A	3	h
Max. Screen Voltage (Ia = 0)	(V) 450	A	4	h
Max. Operating Anode Voltage	(V) 300	A	5	a
Max. Operating Screen Voltage	(V) 300	A	6	g3 + s
Max. Anode Dissipation	(W) 3.0	A	7	g2
Max. Screen Dissipation	(W) 0.9	A		
Mutual Conductance	(mA/V) 7.5	B		
		<u>DIMENSIONS</u> See B.S.448/B7G/2.1 Size Ref. No.2		
<u>CAPACITANCES</u> (pF)			Dimensions (mm)	Min. Max.
C in (Nom.)	7.60	C	A seated height	- 47.5
C out (Nom.)	3.25	C	C diameter	- 19.0
Ca, g1 (Nom.)	.008	C	D overall length	- 54.5
<u>NOTES</u> A. Absolute Maximum values. B. Va = Vg2 = 250; Ia = 10 mA, Vg1 = -2 C. Measured with a close fitting metal shield.				

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

Test Conditions								Test	Limits		No. Tested	Note
									Min.	Max.		
See K.1001/AMH using adaptor Type 124								CAPACITANCES (pF)	6.5	8.7	6	1
Links to H.P.	Links to L.P.	Links to E.	C in									
1	2,3,4,6,7, 8,9.	5,10, TC1, TC2	C out									
5	2,3,4,6,7, 8,9.	1,10, TC1,TC2	Ca,g1									
5	1	2,3,4,6, 7,8,9,10, TC1,TC2		-	.01	T.A.						
Vh	Va (V)	Vg2 (V)	Vg3 (V)	Vg1 (V)	Rk (ohms)	Ia (μA)	Ih (A)	0.275	0.325	100% or S		
b	6.3	0	0	0	0	0						
c	6.3	See K.1001/5.3 except that the test voltage shall be applied with cathode both positive and negative to heater.					hk Leakage Current (μA)	-	40	100%		
d	6.3	250	250	0	0	160	-	Ia (mA)	7.5	12.2	100%	3
e	6.3	250	250	0	0	160	-	-I _{g1} (μA)	-	0.5	100%	3
f	6.3	250	250	0	0	160	-	gm (mA/V)	6.0 6.0	- 9.25	100% 20 per week	2,3
g	6.3	250	250	0	0	160	-	I _{g2} (mA)	1.8	3.4	100%	3
h	6.3	250	250	0	-8	0	-	Ia (μA)	-	100	100%	
j	6.3	250	250	adjust	-3.5	0	50	Vg3 (V)	-70	-120	20 per week	
k	6.3	250	250	0	-4.6	0	-	μg _{1g2}	60	89	20 per week	
Max. grid swing 1 volt												

NOTES

1. Measured with a close fitting metal shield.
2. Cathode resistor to be by-passed by 1000 μF condenser.
3. Voltages specified for Vg₁ and Vg₃ are relative to earth.