

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

Specification MOSA/CV.2172 Issue 1 Dated 23.2.53 To be read in conjunction with K.1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <th>Specification</th><th>Valve</th></tr> <tr> <td>UNCLASSIFIED</td><td>UNCLASSIFIED</td></tr> </table>	SECURITY		Specification	Valve	UNCLASSIFIED	UNCLASSIFIED
SECURITY							
Specification	Valve						
UNCLASSIFIED	UNCLASSIFIED						

—————> Indicates a change

TYPE OF VALVE - Transmitting triode				<u>MARKING</u>		
CATHODE - Directly heated				See K.1001/4		
ENVELOPE - Glass, unmetallised				<u>BASE</u>		
PROTOTYPE - D.C.80, VX.8064				B.9A (Noval)		
<u>RATING</u>			Note	<u>CONNECTIONS</u>		
Filament Voltage	(V)	1.25		Pin	Electrode	
Filament Current	(A)	0.2				
Max. Anode Voltage	(V)	170		1	G	
Mutual Conductance	(mA/V)	3.5	2	2	n.c.	
Anode Current	(mA)	20	1	3	f(-) Note 3	
Max. Cathode Current	(mA)	22		4	f(+)	
Max. Anode Dissipation	(W)	3.3		5	f(-) Note 3	
Amplification Factor		14	2	6	n.c.	
				7	n.c.	
				8	A	
				9	n.c.	
<u>CAPACITANCES</u> (pF)				<u>DIMENSIONS</u>		
Cag		1.5		See K.1001/A1/D4		
Cge		1.8		Dimension	Min.	Max.
Cae		0.9		A m.m.	-	56
				B m.m.	-	22.2
<u>NOTES</u>						
1. Measured at $V_a = 150$, $V_{g1} = -2.0$.						
2. Measured at $V_a = 150$, $I_a = 20$ mA.						
3. Pins 3 and 5 are internally connected L.T. Supply voltage should be connected to pin 5, and H/F components to pin 3.						

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

	Test Conditions				Test	Limits		No. Tested	Note
						Min.	Max.		
a	See K.1001/AIII				<u>CAPACITANCES (pF)</u>				
	Pins to H.P.	Pins to L.P.	Pins to E.						
	8	1	2,3,4,5,6,7,9,	Cag	1.2	1.8	6	1	
	8	2,3,4,5,6,7,9,	1	Cae	0.6	1.2	per	1	
	1	2,3,4,5,6,7,9,	8	Cge	1.5	2.1	week	1	
	Vf (V)	Va (V)	Vg (V)	Ia (mA)					
b	1.25	-	-	-	If (mA)	180	220	100% or S	
c	1.25	150	-	20	Vg ₁ (V)	1.4	2.6	100%	
d	1.25	150	-	20	gm	3.0	4.0	100%	
e	1.25	150	-	20	Ig (μA)	-	0.6	100%	
f	1.25	150	-11	-	Ia (mA)	-	5.5	100%	

NOTE

- Connections refer to valve pins, no R.A.E. adapter being available.