

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

Specification MOSA/CV132 Issue 4 Dated 27.2.53 To be read in conjunction with K1001	<table> <tr> <th colspan="2">SECURITY</th></tr> <tr> <td>Specification</td><td>Valve</td></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 - Hexode				<u>MARKING</u>		
CATHODE - Indirectly heated				See K1001/4		
ENVELOPE - Glass				<u>BASE</u>		
PROTOTYPE - VX132				B7G		
<u>RATING</u>			Note	<u>CONNECTIONS</u>		
				Pin	Electrode	
Heater Voltage	(V)	6.3	A	1	G1	
Heater Current	(A)	0.2		2	C	
Max. Operating Anode Voltage	(V)	300		3	H	
				4	H	
Max. Anode Voltage (Ia = 0)	(V)	550		5	A	
				6	G3	
Max. Operating Screen Voltage	(V)	300		7	G2 + G4	
Max. Screen Voltage (Ia = 0)	(V)	400	A	<u>DIMENSIONS</u>		
Max. Anode Dissipation	(W)	1.0		See K1001/A1/D4		
Max. Screen Dissipation	(W)	0.7	A			
Conversion Conductance	(μ A/V)	550				
Peak Heterodyne Voltage Approx.	(V)	10	B			
<u>CAPACITANCES (pF)</u>						
Cag1 (Max.)		0.1	C			
Cae		9.25	C			
Cg1e		4.3	C			
Cg3 all		4.9	C			

NOTES

- A. Absolute maximum values.
- B. $V_a = 250V$; $V_{g2}, V_{g4} = 100V$; $V_{g1} = -2.5V$.
- C. Measured with a metal screen.
- D. The CV.132 is intended for use as a frequency changer, with a separate triode local oscillator, operating up to at least 20 Mc/s.

TESTS

To be performed in addition to those applicable in K1001

Test Conditions							Test	Limits		No. Tested	Note
								Min.	Max.		
See K1001/IIII Measurements to be made in Adaptor Type 124. Ref. No. 10AD9.											
a	Links to H.P.	Links to L.P.		Links to E			<u>CAPACITANCES</u> (pF)				
							1. Cag 1		0.1	T.A.	
	5	2, 3, 4, 6, 7, 8, 9.		1, 10, TC1 TC2.			2. Cae	7.8	10.7	6	
	1	2, 3, 4, 6, 7, 8, 9.		5, 10, TC1 TC2.			3. Cgle	3.6	5.0	per	1
	6	1, 2, 3, 4, 5, 7, 8, 9.		10, TC1, TC2.			4. Cg3 all	4.1	5.7	week	
b	Vh (V)	Vg2 + Vg4 (V)	Vg3 (V)	Vg1 (V)	Va (V)	IC (mA)					
	6.3	0	0	0	0	0	Ih (A)	0.18	0.22	100% or S	
	6.3	100	0	adjust	250	8	Reverse Ig1 (μA)	-	0.75	100%	
	6.3	100	0	adjust	250	8	Vg1 (V)	1.0	2.7	100%	
	6.3	100	0	adjust	250	8	Ig2 + Ig4 (mA)	-	1.7	100% or S	
	6.3	100	0	adjust	250	8	Ic rise (mA)	2.55	-	100%	
	6.3	100	0	adjust	250	8	Vg3 (V)	-11	-19	100%	
	6.3	100	0	adjust	250	Ia = 100 μA.	Vg1 (V)	-	-11	100%	

NOTE

1. Measured with a metal screen.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION NOS(1)/CV132

ISSUE 4 DATED 27.2.53

AMENDMENT NO. 1

Page 2 Clause (e) ~~Amend~~ Ig2 + Ig4 max. from
1.7 mA to 2.1 mA. ✓

February, 1960

Admiralty Surface Weapons Establishment

N.16333