

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION NOS(A)/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

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	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> 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>			<u>CONNECTIONS</u>		
		Note	Pin	Electrode	
Heater Voltage (V)	6.3		1	G ₁	
Heater Current (A)	0.2		2	G	
Max. Operating Anode Voltage (V)	300	A	3	H	
			4	H	
Max. Anode Voltage (V) (I _a = 0)	550	A	5	A	
			6	G ₃	
Max. Operating Screen Voltage (V)	300	A	7	G ₂ + G ₄	
Max. Screen Voltage (V) (I _a = 0)	400	A	<u>DIMENSIONS</u>		
Max. Anode Dissipation (W)	1.0	A	See K1001/A1/D4		
Max. Screen Dissipation (W)	0.7	A	Dimension Min. Max.		
Conversion Conductance (μA/V)	550	B	A m.m.	-	54.01
Peak Heterodyne Voltage Approx. (V)	10		B m.m.	-	19.05
			L m.m.	-	47.75
			F m.m.	34.04	42.16
<u>CAPACITANCES (pF)</u>					
C _{g1} (Max.)	0.1	C			
C _{ae}	9.25	C			
C _{g1e}	4.3	C			
C _{g3} 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.

CV132

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
c	6.3	100	0	adjust	250	8	Reverse Igl (μ A)	-	0.75	100%
d	6.3	100	0	adjust	250	8	Vg1 (V)	1.0	2.7	100%
e	6.3	100	0	adjust	250	8	Ig2 + Ig4 (mA)	-	1.7	100% or S
f	6.3	100	0	adjust	250	8	Ic rise (mA)	2.55	-	100%
g	6.3	100	Adjust to give gm = 50 μ A/V.	To give Ia = 4mA. with Vg3 = 0	250	-	Vg3 (V)	-11	-19	100%
h	6.3	100	0	adjust	250	Ia = 100 μ A.	Vg1 (V)	-	-11	100%
<u>NOTE</u>										
1. Measured with a metal screen.										