

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2128 Issue No. 2. Dated : 26. 5. 53. To be read in conjunction with K1001.	<table border="1"> <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:- Triode-Heptode.			MARKING			
CATHODE:- Indirectly Heated.			See K1001/4.			
ENVELOPE:- Glass Unmetallised.			BASE			
PROTOTYPE:- ECH81.			B9A			
RATING			CONNECTIONS			
			Note	Pin	Electrode	
Heater Voltage	(V)	6.3	A	1	Heptode G2 and G4.	
Heater Current	(A)	0.3		2	Heptode G1.	
Heptode Section :				3	Cathode, Shield and Heptode G5.	
Max. Anode Voltage ($I_a = 0$)	(V)	600		4	Heater.	
Max. Anode Voltage (Normal I_a)	(V)	330		5	Heater.	
Max. Anode Dissipation	(W)	1.9		6	Heptode Anode.	
Max. Screen Voltage ($I_a = 0$)	(V)	600		7	Heptode G3.	
Max. Screen Voltage ($I_a = 1.0$ mA)	(V)	330		8	Triode Anode.	
Max. Screen Voltage (Normal I_a)	(V)	140		9	Triode Grid G.	
Max. Screen Dissipation	(W)	1.1		B	DIMENSIONS	
Mutual Conductance	(mA/V)	2.4	See K1001/A1/D4.			
Triode Section :						
Max. Anode Voltage ($I_a = 0$)	(V)	600	A		Min.	Max.
Max. Anode Voltage (Normal I_a)	(V)	275			-	67 mm.
Max. Anode Dissipation	(W)	0.9	B		-	22 mm.
Mutual Conductance	(mA/V)	3.7				
CAPACITANCES (pF).			PACKAGING			
C in (Heptode)		4.8	See K1005.			
C out (Heptode)		7.9				
C _{ag1} (Heptode)	(max)	0.01				
C in (Triode)		2.7				
C out (Triode)		2.3				
C _{ag} (Triode)		1.0				
OTHER CAPACITANCES (pF)						
C _{g3} - REST (Heptode)		6.0				
C _{g1} - g ₃ (Heptode)	(max)	0.03				
C _{g1} - (g ₃ +g)	(max)	0.45				
NOTES						
A. Heptode : $V_a = 250$, $V_{g2} = 100$, $I_a = 6.5$ mA.						
B. Triode : $V_a = 100$, $I_a = 13.5$ mA.						

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Note
					Min.	Max.		
a	See K1001.							
	Pins to H.P.	Pins to L.P.	Pins to E					
	2	1,3,4,5,7,8,9.	6	C in (Heptode)	4.3	5.3	6 per week	1
	6	1,3,4,5,7,8,9.	2	C out (Heptode) _{pf}	2.7 7.0	8.9		1
	2	6	1,3,4,5,7,8,9	Cag1 (Heptode)	-	0.01		1
	9	1,3,4,5.	2,6,7,8.	C in (Triode)	2.3	3.1		1
	8	1,3,4,5.	2,6,7,9.	C out (Triode) _{pf}	1.8 1.5	2.6		1
	9	8	1,2,3,5,4,6,7.	Cag (Triode)	0.7	1.3		1
	7	1,2,3,4,5,8,9.	6	Cg3-REST (Heptode)	5.5	6.5		1
	2	7	1,3,4,5,6,8,9.	Cg1-g3 (Heptode)	-	0.3		1
	2	7,9.	1,3,4,5,6,8.	Cg1-(g3+g)	-	0.45		1
b	Heptode			Ih (A)	0.275	0.325	100% or S	2
	Vh	Va	Vg2					
	6.3							
	6.3	15	15	0	15	0		
	6.3	0	0	0	0	15		
	6.3	250	100	0	0	100		
	6.3	250	100	0	-4	100		
	6.3	250	100	0	-27.5	100		
	6.3	250	100	0	See Note 4	100		
	6.3	250	100	0	0	100		
	6.3	250	100	0	0	100		
	6.3	250	100	0	-4	100		
	6.3	250	100	0	-4	100		

NOTES

1. Test to be made at H.F. with no shield round valve.
2. With protective resistance of 0.1 megohm in series.
3. With protective resistance of 1.0 megohm in series.
4. Cathode resistance of 150 ohms.

SPECIFICATION AD/CV2128
ISSUE NO. 2 DATED 26.5.53

AMENDMENT NO. 1

Page 1 Under heading "OTHER CAPACITANCES (pF)"

Amend figure against "Cg1-g3(Heptode)"
to read "(max)/0.3"

Page 2 At Clauses "c" and "d", in "Test" Column.

Amend "Ia" to read "Ik"

April, 1959

T.V.C. for A.S.W.E.

N.54674/D

✓ AAS
2.8.59

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION AD/CV2128

ISSUE NO. 2 DATED 26.5.53

AMENDMENT NO. 2

Page 2. Amend Limits figures in Limit Min. column as follows:-

At 5th entry in Table

C out (Triode) to read 1.5 pF min. instead of 1.8 pF min.

At 2nd entry in Table

C out (Heptode) to read 7.0 pFmin. instead of 7.7 pF min.

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Admiralty Surface Weapons Establishment

nas
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