

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

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.

February, 1960
N.16338/D

Admiralty Surface Weapons Establishment

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2128 Issue No. 2. Dated : 26. 5. 53. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Unclassified	<u>Valve</u> Unclassified

→ Indicates a change

<u>TYPE OF VALVE:-</u> Triode-Heptode.			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly Heated.			See K1001/4.		
<u>ENVELOPE:-</u> Glass Unmetallised.			<u>BASE</u>		
<u>PROTOTYPE:-</u> EC8B1.			<u>B9A</u>		
<u>RATING</u>			<u>CONNECTIONS</u>		
		Note	Pin	Electrode	
Heater Voltage	(V)	6.3			
Heater Current	(A)	0.3	1	Heptode G2 and G4.	
<u>Heptode Section :</u>			2	Heptode G1.	
Max. Anode Voltage (Ia = 0)	(V)	600	3	Cathode, Shield and Heptode G5.	
Max. Anode Voltage (Normal Ia)	(V)	330	4	Heater.	
Max. Anode Dissipation	(W)	1.9	5	Heater.	
Max. Screen Voltage (Ia = 0)	(V)	600	6	Heptode Anode.	
Max. Screen Voltage (Ia = 1.0 mA)	(V)	330	7	Heptode G3.	
Max. Screen Voltage (Normal Ia)	(V)	140	8	Triode Anode.	
Max. Screen Dissipation	(W)	1.1	9	Triode Grid G.	
Mutual Conductance	(mA/V)	2.4	<u>DIMENSIONS</u>		
<u>Triode Section :</u>			See K1001/A1/D4.		
Max. Anode Voltage (Ia = 0)	(V)	600		Min.	Max.
Max. Anode Voltage (Normal Ia)	(V)	275	A	-	67 mm.
Max. Anode Dissipation	(W)	0.9	B	-	22 mm.
Mutual Conductance	(mA/V)	3.7	<u>PACKAGING</u>		
<u>CAPACITANCES (pF).</u>			See K1005.		
C in (Heptode)		4.8			
C out (Heptode)		7.9			
Cag1 (Heptode)	(max)	0.01			
C in (Triode)		2.7			
C out (Triode)		2.3			
Cag (Triode)		1.0			
<u>OTHER CAPACITANCES (pF)</u>					
Cg3 - REST (Heptode)		6.0			
Cg1 - g3 (Heptode)	(max)	0.03			
Cg1 - (g3+g)	(max)	0.45			
<u>NOTES</u>					
A. Heptode : Va = 250, Vg2 = 100, Ia = 6.5 mA.					
B. Triode : Va = 100, Ia = 13.5 mA.					

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)	7.7	8.9		1						
	2	6	1,3,4,5,7,8,9	Cg1 (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)	1.8	2.6		1						
	9	8	1,2,3,5,4,6,7.	Cg (Triode)	0.7	1.3		1						
	7	1,2,3,4,5,8,9.	6	Cg3- HEPT (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	Vh	Heptode			Triode			Ih (A)	0.275	0.325	100% or 8			
	Va	Vg2	Vg3	Vg1	Va	Vg								
	6.3											←		
	c	6.3	15	15	0	15	0	Ia (Heptode) (mA)	35	-		100%	←	
	d	6.3	0	0	0	0	15	Ia (Triode) (mA)	18	-			←	
	e	6.3	250	100	0	0	100	-2	Ia (Heptode) (mA)	7.5			17	←
	f	6.3	250	100	0	-4	100	-2	Ia (Heptode) (mA)	1.6			4.4	←
	g	6.3	250	100	0	-27.5	100	-2	Ia (Heptode) (μA)	-			75	←
	h	6.3	250	100	0	See Note 4	100	-2	I (g2+g4) (mA)	2.1			5.3	←
	j	6.3	250	100	0	0	100	0	Ia (Triode) (mA)	9.0			19.0	←
	k	6.3	250	100	0	0	100	-7	Ia (Triode) (mA)	-			2.5	←
	l	6.3	250	100	0	-4	100	-4	Ig1 (Heptode) (μA)	-			0.5	←
	m	6.3	250	100	0	-4	100	-4	Ig1 (Triode) (μA)	-			0.5	←
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.														