

VALVE ELECTRONIC**CV303**ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV303/Issue 4 Dated 18.2.46. 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>Restricted</td><td>Restricted</td></tr> </table>	SECURITY		Specification	Valve	Restricted	Restricted
SECURITY							
Specification	Valve						
Restricted	Restricted						

<u>TYPE OF VALVE:-</u> Variable- μ H.F. Pentode. <u>CATHODE:-</u> Indirectly heated. <u>ENVELOPE:-</u> Glass, enclosed in metal shell. <u>PROTOTYPE:-</u> EF22.	<u>MARKING</u> See K1001/4.
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<u>RATING</u>			Note	<u>BASE AND CONNECTIONS</u> <u>B8G (MOD.)</u>	
				Pin	Electrode
Heater Voltage	(V)	6.3	A	1	Heater
Heater Current	(A)	0.2		2	Anode
Max. Anode Voltage	(V)	550		3	Grid 2
Max. Anode Voltage	(V)	300		4	Grid 3, internal shield.
Max. Cathode Current	(mA)	10	B	5	No connection
Max. Anode Dissipation	(W)	2		6	Grid 1
Max. Screen Grid Voltage	(V)	300	C	7	Cathode
Mutual Conductance	(mA/V)	2.2		8	Heater
Internal Resistance	(M Ω)	1.2	C	Spigot	Metal shell
Max. Screen Grid Dissipation	(W)	0.3			
<u>CAPACITANCES (pF. approx)</u>			<u>DIMENSIONS</u> See drawing, Page 3.		
Cag		<0.002			
Cae		6.4			
Cg1e		5.5			
Cg1h		<0.004			

NOTES

- A. For $I_a = 0$ mA.
 B. For $I_a < 3$ mA.
 C. Measured at $V_a = 250$ V, $V_{g2} = 100$ V, $V_{g1} = -2.5$ V and $I_a = 6.0$ mA.

Packing see K1005

CV303/4/i.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested	Note
	Vh (V)	Va (V)	Vg3 (V)	Vg2 (V)	Vg1 (V)		Min.	Max.		
a	6.3	-	-	-	-	Ih (A)	0.192	0.208	100% or S	
b	6.3	30 (AC)	30 (AC)	30 (AC)	30 (AC)	Ie (mA)	49	-	100%	
c	6.3	300	0	100	0	Ia (mA)	10.5	15.5	100%	
d	6.3	300	0	100	-6	Ia (mA)	1.3	2.7	100%	
e	6.3	300	0	100	-27	Ia (μA)	-	15	100%	1
f	6.3	300	0	100		Ig2 (mA)	1.3	1.9	100%	2
g	6.3	300	0	100		Reverse Ig (μA)	-	0.6	100%	2
h	6.3	150 V between H and C (cathode positive).				Insulation (μA)	-	45	100%	3

NOTES

1. Protective Resistance of 1 M Ω in anode circuit.
2. Cathode Resistance of 330 Ω .
3. Protective Resistance of 1 M Ω in series.

