

VALVE ELECTRONIC **CV1203**
(NT1)

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1203/Issue No.2 Dated 13.6.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specn.</u> Restricted	<u>Valve.</u> Unclassified

→ Indicates a change

<u>TYPE OF VALVE:-</u> Double-ended transmitting triode.		<u>MARKING</u> See K1001/4.																			
<u>CATHODE:-</u> Directly heated, pure or thoriated tungsten.		<u>CONNECTIONS</u> Flexible leads.																			
<u>ENVELOPE:-</u> Glass, clear.		Filament } at one end. Anode } Grid - at other end.																			
<u>RATING</u>		<u>Colours:-</u>																			
Filament Voltage (V)	14.0	FF : yellow																			
Filament Current (A)	4.7	G : green																			
Max. Anode Voltage (kV)	2.0	A : red																			
Max. Anode Dissipation (W)	150	See Note B.																			
Mutual Conductance (mA/V)	1.6	<u>DIMENSIONS</u>																			
Amplification Factor	5.8	See K1001/Al/D3																			
Anode Impedance (ohms)	3,600	<table border="1" style="width: 100%;"> <thead> <tr> <th>Dimension</th> <th>Min.</th> <th>Max.</th> </tr> </thead> <tbody> <tr> <td>A mm.</td> <td>230</td> <td>250</td> </tr> <tr> <td>B mm.</td> <td>117</td> <td>124</td> </tr> <tr> <td>C mm.</td> <td>53</td> <td>57</td> </tr> <tr> <td>F mm.</td> <td>25</td> <td>-</td> </tr> <tr> <td>H mm.</td> <td>-</td> <td>125</td> </tr> </tbody> </table>		Dimension	Min.	Max.	A mm.	230	250	B mm.	117	124	C mm.	53	57	F mm.	25	-	H mm.	-	125
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<u>NOTES</u>		<u>PACKING</u>																			
<p>A. At $V_a = 1000$ V, $V_g = -25$ V, $I_a = 150$ mA.</p> <p>B. Each lead is to consist of four strands of 28 SWG (or an approved equivalent) with free length of 13 ins. They are to be protected in the re-entrant seal by beads and bound back to the neck of the bulb. The free length of the leads is to be insulated with cambric tubing (or suitable equivalent material) to within 2 ins. of the end and coloured as above. The insulation must not be liable to slip.</p>		See K1005.																			

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested
	Vf (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.	
a	14.0	-	-	-	If (A)	4.45	4.95	100% or S
b	Ad-justed	200	200	400	Vf (V)	13	15	100%
c	14.0	A.C. 50 ~ Inverse peak of 14,000 V.			High Voltage Test	No blue glow or deteriora- tion must occur.		100%
d	14.0	1200	Ad-justed	125	Vg (V)	-40	-70	100%
e	14.0	1200	Ad-justed	125	Reverse I _g (μA)	-	20	100%

NOTE

- The valve is accepted on the understanding that it will perform satisfactorily during a 5 minute oscillatory test with Vf = 14 V and Va adjusted to give dissipations as follows:-

<u>Frequency (Kc/s)</u>	<u>Wa(W)</u>
3,000	150
15,000	115
30,000	100
60,000	70