VALVE ELECTRONIC **CV1203** (NT1)

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1203/Issue No.2
Dated 13.6.47.
To be read in conjunction with K1001.

SECURITY	
Specn.	Valve.
Restricted	Unclassified

→ Indicates a change

TYPE OF VALVE:- Double-ended transmitting triode.

CATHODE:- Directly heated, pure or thoriated tungsten.

ENVELOPE:- Glass, clear.

RATING

			Note
Filament Voltage	(V)	14.0	
Filament Current	(A)	4.7	
Max. Anode Voltage	(kV)	2.0	
Max. Anode Dissipation	(W)	150	
Mutual Conductance	(mA/V)	1.6	A
Amplification Factor		5.8	A
Anode Impedance	(ohms)	3,600	A

MARKING

See K1001/4.

CONNECTIONS

Flexible leads.

Filament } at one end.
Anode }

Grid - at other end.

Colours:-
FF : yellow
G : green
A : red
See Note B.

DIMENSIONS

See K1001/AI/D3

Dimension	Min.	Max.
A mm.	230	250
B mm.	117	124
C mm.	53	57
F mm.	25	-
H mm.	-	125

PACKING

See K1005. ←

NOTES

A. At Va = 1000 V, Vg = -25 V, Ia = 150 mA.

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.

CV1203

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	Adjusted	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 deterioration must occur.		100%
d	14.0	1200	Adjusted	125	Vg (V)	-40	-70	100%
e	14.0	1200	Adjusted	125	Reverse Ig (μA)	-	20	100%

NOTE

1. 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:-

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