ADMIRALTY SIGNAL ESTABLISHMENT

VALVE ELECTRONIC **CV1207**
(NT19)

Specification AD/CV1207/Issue 3. Dated 25.2.46. To be read in conjunction with K1001.	SECURITY Specification Restricted	Valve Restricted

TYPE OF VALVE:- Triode.
CATHODE:- Directly heated, pure tungsten.
ENVELOPE:- Glass.

MARKING

See K1001/4.

RATING

			Note
Filament Voltage	(V)	17.0	
Filament Current	(A)	5.65	
Max. Anode Voltage	(V)	7000	
Max. Anode Dissipation	(W)	450	
Amplification Factor		24	
Mutual Conductance	(mA/V)	2.4	A

PACKING

See ~~K1001/7.3.~~ K1005

CONNECTIONS
Flexible leads.

Grid } at one
Filament } end.
Anode - at other end

Colours :-

FF : Yellow
G : Green
A : Red
See Note B

NOTES

A. Measured at Va = 4000, Vg = -50.

B. Each lead is to consist of two strands of 7/38 S.W.G. (or an approved equivalent) with free length of 18-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.

DIMENSIONS

See K1001/AI/D3.

Dimension	Min.	Max.
A mm	310	330
B mm	160	175
C mm	58	66
F mm	25	-
J mm	-	50
K + M mm	15	-

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	17.0				If (A)	5.4	5.9	100% or S
b		200	200	400	Vf (V)	-	19	100%
c	17.0	A.C. 50~ Inverse peak of 20,000 V			High voltage test.	No blue glow or deterioration must occur.		100%
d	17.0	4000	Adjusted	113	Vg (V)	30	70	100%
e	17.0	4000	Adjusted	113	Reverse Ig (μA)	-	20	100%

NOTE

The valve is accepted on the understanding that it will perform satisfactorily during a 5 minute oscillatory test under the following conditions :-

Vf = 17 V, Va = 7 kV, Wa = 450 W, (whilst oscillating) peak voltages of 5,000 V appearing between filament and grid.