VALVE ELECTRONIC CV1190 (NR75)

(See Note A below)

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1190/Issue 5.
Dated 6.12.47.
To be read in conjunction with K1001.

SECURITY	
Specification	Valve
Restricted	Unclassified

→ indicates a change

TYPE OF VALVE:- Triode.
CATHODE:- Indirectly heated.
ENVELOPE:- Glass.
PROTOTYPE:- AC/P4.

RATING

		Note
Heater Voltage (V)	4.0	
Heater Current (A)	1.1	
Maximum Anode Voltage (V)	700	
Mutual Conductance (mA/V)	7.0	B
Amplification Factor	20	B
Anode Impedance (ohms)	2800	B

CAPACITANCES (pF. approx)

Anode to earth	4.4
Grid to earth	8.4
Anode to grid	5.7

MARKING

See K1001/4.
Additional marking:-
See Note A.

BASE

E5

See K1001/AIV/D5.2. ←

Pin	Electrode
1	No connection
2	Grid
3	Heater
4	Heater
5	Cathode
TC	Anode

TOP CAP

See K1001/AI/D5.1.

DIMENSIONS

See K1001/AI/D1.

Dimension	Min.	Max.
A mm	-	130
B mm	-	32

PACKAGING

See K1005. Also see Note C. ←

NOTES

A. CV1190 is a pair of CV1198 valves matched so that the respective grid voltages determined in test 'c' do not differ by more than 0.5 V. In both cases the marking on the valve itself is "CV1198", but the box containing the pair of valves shall be marked "CV1190".

B. Va = 100 V., Vg = 0.

C. The valves shall be packed in matched pairs, one pair in each box.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No.	
	Vh (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.	Tested	Note
a	4.0				Ih (A)	0.99	1.21	100% or S	
b	4.0	1000 (Applied through 0.1 Megohm	Adjusted	4.75	Reverse grid current (μA)	-	1.0	100%	
c	4.0	1000 (Applied as in test 'b')		4.75	Vg (V)	-19	-33	100%	
i	4.0	100	0	x	gm (mA/V) [i.e. $\frac{x - y}{3}$]	5.3	-	100%	1
d ii	4.0	100	-3	y					
e	4.0	Adjusted	-1	Value 'x' as in test 'd (i)'	Va (V)	117	126	A small %	1

NOTE

1. Equivalent dynamic methods may be used for tests 'd' and 'e'.