

VALVE ELECTRONIC CV1190

(NR75)

ADMIRALTY SIGNAL ESTABLISHMENT

(See Note A below)

Specification AD/CV1190/Issue 5. Dated 6.12.47. To be read in conjunction with K1001.	<u>SECURITY</u> <u>Specification</u> Restricted	<u>Valve</u> Unclassified
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→ indicates a change

<u>TYPE OF VALVE:-</u> Triode.			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated.			See K1001/4.		
<u>ENVELOPE:-</u> Glass.			<u>Additional marking:-</u>		
<u>PROTOTYPE:-</u> AC/P4.			See Note A.		
<u>RATING</u>			<u>BASE</u>		
			B5		
			Note See K1001/ATV/D5.2.		
Heater Voltage (V)		4.0	Pin	Electrode	
Heater Current (A)		1.1	1	No connection	
Maximum Anode Voltage (V)		700	2	Grid	
Mutual Conductance (mA/V)		7.0	3	Heater	
Amplification Factor		20	4	Heater	
Anode Impedance (ohms)		2800	5	Cathode	
			TC	Anode	
<u>CAPACITANCES</u>			<u>TOP CAP</u>		
<u>(pF. approx)</u>			See K1001/AT/D5.1.		
Anode to earth			<u>DIMENSIONS</u>		
Grid to earth			See K1001/AT/D1.		
Anode to grid			Dimension	Min.	Max.
			A mm	-	130
			B mm	-	42
			<u>PACKAGING</u>		
			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. $V_a = 100 \text{ V.}$, $V_g = 0.$
- 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. Tested	Note
	Vh (V)	Va (V)	Vg (V)	Ia (mA)		Min.	Max.		
a	4.0				Ih (A)	0.99	1.21	100% or S	
b	4.0	1000 (Ap- plied through 0.1 Megohm)	Ad- just- ed	4.75	Reverse grid current (μA)	-	1.0	100%	
c	4.0	1000 (Ap- plied as in test 'b')		4.75	Vg (V)	-19	-33	100%	
i	4.0	100	0	x	gm (mA/V)	5.3	-	100%	1
d ii	4.0	100	-3	y	$\left[\text{i.e. } \frac{x - y}{3} \right]$				
e	4.0	Ad- just- ed	-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'.