VALVE ELECTRONIC CVI 196

SECURITY

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1196/Issue 2.

(NR87)

Dated 20.6.46. To be read in conjunction	Specification Valve Restricted Unclassified							
	MARKING							
TYPE OF VALVE: - Double Diode Output Pentode.				See K1001/4.				
CATHODE: - Indirectly heated.				BASE B7				
ENVELOPE:- Glass, clear. PROTOTYPE:- AC5Pen.DD				See K1001/AIV/D5.3				
				Electrode				
RATING			1	Diode No.1 Anode				
		Note	2		Diode No	2		
Heater Voltage (V)	4.0			l .	Heater			
Heater Current (A)	2.0		4 5 6	1	Heater Cathode			
Maximum Anode Voltage (V)	250		7		Screen g	rid		
Voltage (V) Meximum Screen	250		TC		Control			
Voltage (V)	2 50		TOP CAP					
Mutual Conductance (mA/V)		١.	See K1001/AI/D5.1.					
Conductance (may v)	9.0	A	DIMENSIONS					
CAPACITANCES (pF. approx.			See	See K1001/AI/D1.				
Anode to earth. Grid 1 to earth.	9.75 18.5		Dimension Min			Max		
Anode to grid 1	0.9		Α	A mm - 14 B mm - 5				
Diode 1 to earth. Diode 2 to earth.	4.25							
Diode 1 to diode 2.	4.0 0.15		В					
		L	L	-		L		

NOTE

A. Va = 100 V, Vg2 = 100 V, Vg1 = 0 V.

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TESTS

To be performed in addition to those applicable in K1001.

See Note 1.

	Test Conditions						Limits		No.	
	Vf (V)	V a (V)	V g1 (V)	V g2 (V)	(A)	Test	Min.	Max.	Tested	
a	4.0	•	•	•	•	If	(A)	1.8	2.2	1%
ъ	4.0	250	- 8•5	250	•	_Ig1	(ALV)	•	0.75	100%
c	4.0	250	from -8.5 to -2.75	250	-	Ia change (See Note 2)	(mA)	49	,	100%
đ	4.0	250	-8. 5	250	-	Ia	(mA)	25	56	100%
е	4.0	-		-	10	Diode Ia	(MA)	1000	-	100%
	Test to be applied to each diode.									

NOTES

- 1. The valve must be pre-heated for 5 mins. before test under the following conditions:-Vf = 4.0 V, 150 V D.C applied between heater and cathode, cathode being positive. Anode and screen volts zero.
- 2. This test may be performed dynamically.
- VD diode voltage.