

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1196/Issue 2. Dated 20.6.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE</u> :- Double Diode Output Pentode.		<u>MARKING</u> See K1001/4.	
<u>CATHODE</u> :- Indirectly heated.		<u>BASE</u>	
<u>ENVELOPE</u> :- Glass, clear.		B7	
<u>PROTOTYPE</u> :- AC5Pen.DD		See K1001/AIV/D5.3	
<u>RATING</u>		<u>Pin</u>	<u>Electrode</u>
		1	Diode No.1
		2	Anode
		3	Diode No.2
		4	Heater
		5	Heater
		6	Cathode
		7	Screen grid
		TC	Control grid
		<u>TOP CAP</u> See K1001/AI/D5.1.	
		<u>DIMENSIONS</u> See K1001/AI/D1.	
		<u>Dimension</u>	<u>Min</u> <u>Max</u>
		A mm	- 142
		B mm	- 54

NOTE

A. $V_a = 100 \text{ V}$, $V_{g2} = 100 \text{ V}$, $V_{g1} = 0 \text{ V}$.

TESTS

To be performed in addition to those applicable in K1001.

See Note 1.

	Test Conditions					Test	Limits		No. Tested
	Vf (V)	Va (V)	Vg1 (V)	Vg2 (V)	VD (V)		Min.	Max.	
a	4.0	-	-	-	-	If (A)	1.8	2.2	1%
b	4.0	250	-8.5	250	-	-I _{g1} (μA)	-	0.75	100%
c	4.0	250	from -8.5 to -2.75	250	-	I _a change (mA) (See Note 2)	49	-	100%
d	4.0	250	-8.5	250	-	I _a (mA)	25	56	100%
e	4.0	-	-	-	10	Diode I _a (μA)	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.
3. VD diode voltage.