

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV173/Issue 4. Dated 11.6.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:-</u> Video Amplifier Pentode. <u>CATHODE:-</u> Indirectly heated. <u>ENVELOPE:-</u> Glass with metal shield can. <u>PROTOTYPE:-</u> DDR2.	<u>MARKING</u> See K1001/4	<u>PACKING</u> See K1001/7
	<u>BASE</u> B9G See K1001/AIV/D1.	

<u>RATING</u>			Note
Vh	(V)	6.3	
Ih	(A)	0.95	
Max. Va	(V)	300	A
Max. Va	(V)	500	B
Max. Vg2	(V)	250	A
Max. Vg2	(V)	300	B
Max. Wa	(W)	10	
Max. Wg2	(W)	2	
Max. grid series R	(MΩ)	0.7	
Max. Vh - c	(V)	150	
Max. Peak Ic	(A)	1.5	C
Max. Ic	(mA)	70	
<u>CAPACITANCES (pF. approx).</u>			
Cae		12.5	D
Cge		15	D
Cag		0.15	

Pin	Electrode
1	H
2	G2
3	A
4	G3
5	Int. shield
6	C
7	G1
8	Int. shield
9	H

DIMENSIONS
See K1001/AI/D2, except

Dimension	Min.	Max.
E mm	-	83

See Note E below

- NOTES
- A. DC continuous rating.
 - B. For pulsed grid application, during "no current" state.
 - C. For pulse of 50 μs at 500 p/s.
 - D. Including capacity to can.
 - E. The skirt of the valve i.e. the dimension "M" in K1001/AI/D2, shall be free from paint, to allow good electrical contact to be made.

<u>TYPICAL OPERATING CONDITIONS</u>				
Va	(V)	250	250	250
Ia	(mA)	4.0	10	10
Vg2	(V)	250	250	150
gm	(mA/V)	12	6.0	7.0
Ig2	(mA)	5.5	1.0	1.0
Vg1	(V)	-4.5	-7.0	-4.0
Ra	(KΩ)	55	100	100
μ	(G1/G2)	28	27	-
Cath. R	(Ω)	100	360	

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions					Test	Limits		No. Tested
	Vh (v)	Va (v)	Vg2 (v)	Vg3 (v)	Vg1 (v)		Min.	Max.	
a	6.3					Ih (A)	0.85	1.05	100% or S
b	6.3	Electrode strapped V = 30 V. RMS. AC.				Ia (mA)	140		100%
c	6.3	250	250	0	-2	Ia (mA)	50	100	100%
d	6.3	250	250	0	-6	Ia (mA)	15	31	100%
e	6.3	250	250	0	-10	Ia (mA)	-	5	100%
f	6.3	250	250	0	-4.5	Reverse I _{g1} (μA)	-	1.5	100%
R = 0.1 Megohm in grid lead									
g	6.3	250	250	0	0	Ia (mA)	80	-	Type Approval