

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV173/Issue 4. Dated 11.6.47. To be read in conjunction with K1001.				SECURITY Specification Secret Valve Unclassified	
TYPE OF VALVE:- Video Amplifier Pentode. CATHODE:- Indirectly heated. ENVELOPE:- Glass with metal shield can. PROTOTYPE:- DDR2.				MARKING See K1001/4	PACKING See K1001/7
				BASE B9G See K1001/AIV/D1.	
				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 applica- tion, during "no current" state.	
				C. For pulse of 50 μ S 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.	
RATING					
Vh	(V)	6.3		Note	
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	(M Ω)	0.7			
Max. Vh - c	(V)	150			
Max. Peak Ic	(A)	1.5	C		
Max. Ic	(mA)	70			
CAPACITANCES (pF. approx).					
Cae		12.5	D		
Cge		15	D		
Cag		0.15			
TYPICAL OPERATING CONDITIONS					
Va	(V)	250	250	250	
Ia	(mA)	4.0	10	10	
Vg2	(V)	250	250	150	
gn	(mA/V)	12	6.0	7.0	
Ig2	(mA)	5.5	1.0	1.0	
Vg1	(V)	-4.5	-7.0	-4.0	
Ra	(K Ω)	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 $\bar{V} = 30$ 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

DATA GIVEN FOR INFORMATION OF EQUIPMENT DESIGNERS, AND NOT SUBJECT TO ACCEPTANCE TESTING.

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$V_h = 6.3 \text{ V.}$

$I_h = 0.95 \text{ A}$

SEE SPECIFICATION FOR DIMENSIONS,
CONNECTIONS, MAIN RATINGS AND CAPACITIES.

AN APPLICATION REPORT IS AVAILABLE FROM THE VALVE OFFICE.



