

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION AD/GV2901
Issue No. 1 dated 22.11.55.

AMENDMENT No. 1.

Page 1. Dimensions.

Amend dimension "A"
Seated Height to read
49 mm, and dimension
"D"-Overall Length to
read 56 mm.

Mutual Conductance

Amend figure to read 2.0 mA/V.

/Capacitance.

Capacitance.

Amend Cge to read:- 3.85 pF

" Cae to read:- 5.15 pF

Page 2. Clause "a".

Amend Cge limits to read:-

3.4 pF min. and 4.3 pF max.

Amend Cae limits to read:-

4.5 pF min. and 5.8 pF max.

Clause "e".

Amend limits to read:-

1.55 mA/V min. and 2.45 mA/V max.

November, 1959.

Admiralty Surface Weapons Establishment.

N. 8355/D

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions					Test	Limits		No. Tested	Note	
	See K1001/A. III						Min.	Max.			
a	Pins to H.P.	Pins to L.P.	Pins to E			Capacitances (pF)					
	6	9	1,2,3,4 5,7,8			C_{ag}	-	0.05	T.A.	1	
	9	1,2,3,4, 5,7,8	6			C_{ge}	3.85	4.6	20 per week	1	
6	1,2,3,4, 5,7,8	9			C_{ae}	4.8	5.7	1			
b	Vh (V)	Va (V)	Vg3 (V)	Vg2 (V)	Vg1 (V)	Ih (A)	0.185	0.215	100% or 8		
	6.3	0	0	0	0						
c	6.3	14	0	14	14	Emission (mA)	32	-	100%	2	
d	6.3	250	0	140	-2.0	Ia (mA)	2.15	3.85	100%		
e	6.3	250	0	140	-2.0	gm (mA/V)	1.4	2.3	100%		
f	6.3	250	0	140	-7.0	Ia (μA)	0	40.0	100%	3	
g	6.3	250	0	140	-2.0	Ig2 (mA)	-	.85	100%		
h	6.3	250	0	140	-2.0	Reverse Ig1 (μA)	0	0.4	100%		
j	6.3	100	0	75	-1.4	Microphony (μV)	0	70.0	See Note 4	4,6,7	
k	6.3	100	0	75	-1.4	Hum (Grid) (μV)	0	5.0	100%	5,6	
l	6.3	100	0	75	-1.4	Hum (Cathode) (μV)	0	50.0	100%	5,6	
m	6.3	100	0	75	-1.4	Hiss (μV)	0	5.0	100% or 8	6,7	

CV2901/1/2

NOTES

1. Measured at 1.0 Mc/s approx. and without metal screen.
2. The test voltage shall be applied only for as long as is necessary to measure the cathode current.
3. With 1 megohm meter-protecting resistance in series with anode.
4. Readings are to be taken with valve vibrating with an excitation frequency between 25 and 50 c/s at $2\frac{1}{2}g$, with vibration applied perpendicular to the plane of grid 1. During vibration, the valve shall be tapped lightly. The highest reading obtained before or after the tapping shall be the recorded value. The number of valves tested shall be in accordance with Inspection Level = I and AQL = 2.5%.
5. The valve shall be tested using a low-loss test socket. The Hum tests shall be conducted by alternately earthing Pins 4 and 5; the highest reading being recorded.
6. Valves to be tested in the amplifier described in Appendix A to this specification. Copies of this Appendix may be obtained from the specifying Authority. The limits given in the specification refer to the equivalent grid 1 R.M.S. voltage.
7. Microphony and Hiss tests may be conducted with D.C. heating of the cathode.