



NOTES

- A. The temperature of the anode seal shall not exceed 170°C. The base seals shall be cooled by the circulation of at least 2 cubic feet of air per minute.
- B. The values of peak cathode current apply to pulse operation at frequencies above 15 kc/s.
- C. The Joint Services Catalogue Number is 5960-99-037-2315

## TESTS

CV5343

To be performed in addition to those applicable in K.1001

	Test Conditions					Test	Limits		No. Tested	Note	
							Min.	Max.			
	See K.1001/AIII					CAPACITANCES (pF)	10.70	14.50	6 per week		
	Links to H.P.	Links to L.P.	Links to E								C in
	3	1,2,4,5	6,7,8,9,10 T.C.1,T.C.2								
a	T.C.1	1,2,4,5	3,6,7,8,9, 10,T.C.2			C out	3.70	5.10			
	T.C.1	3	1,2,4,5,6, 7,8,9,10, T.C.2			Ca, g1	-	0.14	T.A.		
	Vf	Va(kV)	Vg2	Vg1	Ia(mA)				100%		
b	5.0	0	0	0	0	If (A)	13.5	14.7	or S		
c	6.0	See Note 1				g1 Primary (uA) Emission	-	500	100%	1	
d	6.0	See Note 2		0	-	g2 Primary (uA) Emission	-	500	100%	2	
e	5.0	2.5	500	Adjust	100	Vg1 (V)	-65	-95	100%		
f	5.0	2.5	500	Adjust	100	Ig1 (uA)	-	10	100%		
g	5.0	-	500	Adjust	-	ug1, g2	4.5	6.0	20 per week	3	
h	5.0	Anode, g2 and g1 strapped with 2.5 kV Peak applied				Peak Emission (A)	8.0	-	100%		
j	5.0	5.0	600	<del>275</del> Notes	166	Power Output (W) Ig2 (mA)	500 -	- <del>400</del>	6 per week	4	

## NOTES

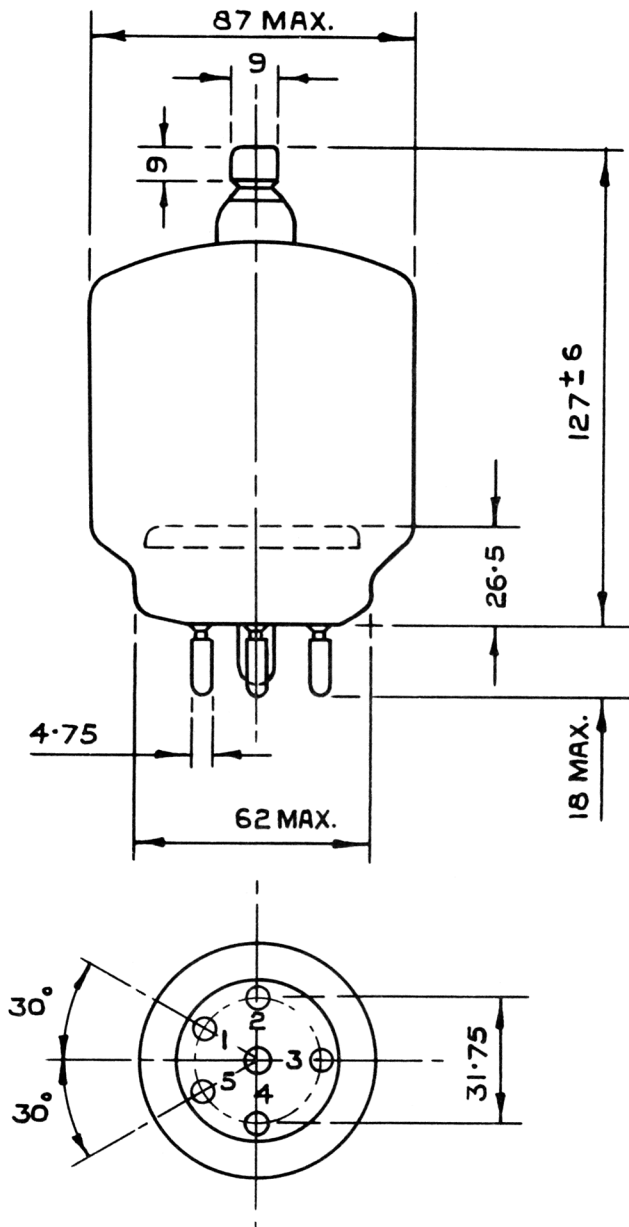
- (1) With anode and g2 floating, the 50 c/s A.C. volts applied to g1 through suitable rectifiers, shall be adjusted to heat the grid during the (+)ve half cycles and give a mean Ig1 = 200 mA D.C. The grid emission shall be measured during (-)ve half cycles. Test duration to be 15 seconds minimum.
- (2) With anode floating, the 50 c/s A.C. volts applied to g2 through suitable rectifiers shall be adjusted to heat the grid during the (+)ve half cycles and give a mean Ig2 = 170 mA D.C. The grid emission shall be measured during (-)ve half cycles. Test duration to be 15 seconds minimum.
- (3) Anode earthed, Vg1 adjusted to give: Ig2 = 70 mA.

- (4) This is a self-oscillating condition - the power oscillation test frequency to be not less than 15 MHz.
- (4) Under the conditions of test j there shall be no arcing, flashovers etc. during the 15 minute test period. The self-oscillating condition shall be maintained for 15 minutes during which time no arcing or flashover shall occur.

- (5) For correct conditions of self-oscillation the grid bias voltage shall be approximately -275 volts. This may be obtained by a suitable value of Rg1 or by a combination of both fixed and self bias - Ig1 shall not exceed 25 mA.

CV5343/1/3

Amult1



ALL DIMENSIONS IN MILLIMETRES

ELECTRONIC VALVE SPECIFICATIONS  
SPECIFICATION AD/CV5343, ISSUE 1 DATED 17.11.60  
AMENDMENT NO. 1

1. Page 1

Under RATINGS, amend the Max. Screen Grid Dissipation from 35W to 36W.

2. Page 3

a. Test j

- (1) In the Test Condition Column under  $V_{g_1}$  delete "-275" and insert "NOTE 5"
- (2) In the Limits (max.) Column amend the limit for  $I_{g_2}$  from 100 mA to 60 mA.

b. NOTES

- (1) Delete the existing text of NOTE 4 and substitute the following:-

"This is a self-oscillating condition - the power oscillation test frequency to be not less than 15 MHz. The self-oscillating condition shall be maintained for 15 minutes during which time no arcing or flashover shall occur".

- (2) Insert a new NOTE 5 as follows:-

"For correct conditions of self-oscillation the grid bias voltage shall be approximately -275 volts. This may be obtained by a suitable value of  $R_{g_1}$  or by a combination of both fixed and self bias -  $I_{g_1}$  shall not exceed 25 mA".