VALVE ELECTRONIC CV334

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV334/Issue 2

(CV61 BLUE B)

SECURITY

Dated 8.10.46		Specification	ASTAG
ignoring clauses	junction with K1001, :- 5.2, 5.8.	Restricted	Unclassified
TYPE OF VALVE:-	Midget Pentode.	MARKI	NG
CATHODE:-	Directly heated, oxide coated tungsten.	See K1001/4	
ENVELOPE:-	Clear Glass.		•

	RATIN	3	Note	BASE AND DIMENSIONS See Fig. 3
Filament V	-	(V) 1.4 (A) 0.12		PACKING See K1001/7

TESTS

To be performed, in addition to those applicable in K1001,

six weeks after manufacture.

		SIY MCC	ka ar fel mandrag				
	Test Conditions		Test	Limits		No.	Note
	Vf (V)			Min.	Max.	Tested	
A	0	Vg1, with re- spect to all other elec- trodes = 135 V	Insulation G1 to rest(M.n.)	100	-	100%	
Ъ	0	Va, with re- spect to all other elec- trodes = 135 V	Insulation A to rest (M.A.)	100		100%	2 -
C	1.4		If (mA)	-	130	100%	
đ		Test valve in shown in Fig. 1 8 V grid bias.	Input AC Resistance Test. Note difference between Ia with 1000 M.s. resistor in, and out of, grid lead (MA)		10	100%	1

Contd. overleaf ...

TESTS (Contd.)

	Test	Conditions	Test		Lim	its Max.	No. Tested	Note
е	1.4	Repeat test 'd' with -2.2 V grid bias.		(AA)	-	10	100%	. 1
f	1.4	Test valve in circuit shown in Fig. 2.	Noise Test. Note mean rectified current after C2	(mV)	-	0.8	100%	2,3

NOTES

- 1. The 1,000 Ma resistor, shown in Fig. 1, should be of the special hydrogen type, and the switch must have a high resistance.
- 2. C1 and C2 are such that the frequency response of the circuit is substantially as follows:-

With 4 mV Input						
c/s	đb	c/s	đb	c/s	₫Ъ	
0.6 0.7 0.8 0.9 Plot as a curve on by 3 cycl paper, wi linear sc	"linear e" log th db on	1.0 2.0 3.0 4.0 5.0 6.0 7.0 9.0	-6.0 -2.4 -1.0 -0.4 -0.2 -0.2 -0.2 -0.4	10 20 30 40 50 60 100	-0.6 -3.0 -5.0 -7.0 -8.5 -10.0 -14.0	

3. The straight amplifier following Fig. 2, must have an imput impedance of not less than 5 M \(\Omega\) and a flat response over the range 0.5 c/s to 5 kc/s.

