GENERAL POST OFFICE: E-IN-C (S)

Specification: G.P.O. / CV 443/ Issue 2

Dated: 12th July 1949

To be read in conjunction with K 1001 ignoring

Clause 5.2

SECURITY

Specification

Valve

Unclass

_____ indicates a change

TYPE OF VALVE: Sub-miniature pentode CATHODE: Directly heated ENVELOPE: Unmetallised glass ENCOUNTER OF FOR AN (Pourthern) Factory identification code
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NOTE

A. Measured with Va = Vg2 = 30, and Vg1 = 0

A sharp bend must not be made in any valve lead closer than 1.5 mm to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm to the seal.

CV443

TESTS

To be performed in addition to those applicable in K 1001

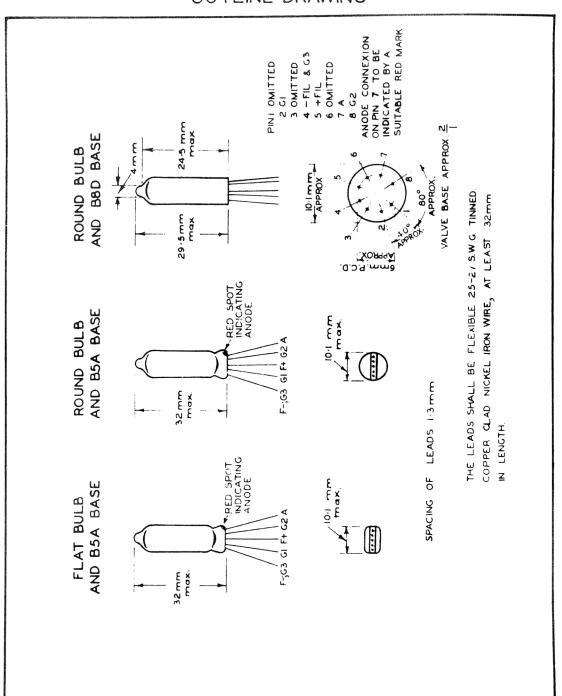
		TEST CONDITIONS			TEST		LIMITS		N-
							Min.	Max.	No. Tested
		۷f	Vht	f(c/s)					
	a	0.625	-	-	If ((mA)	22	28	100%
	ъ	0.55	20	50	Gain (Note 2) ((db)	27	-	100%
•	С	0.75	20	50	Gain (Note 2) ((db)	27	-	10 per week
•	đ	0.55	30	50	Gain (Note 2)	(db)	31	-	10 per week
•	е	0.75	30	-	Microphony (Note 3)		-	Note 3	100%

NOTES

- 1. The equipment used for testing is to be approved by G.P.O.
- 2. Tested in Test Circuit shown on page 4.
- 3. The input terminals of the test circuit shown on page 4 shall be short circuited and the output terminals shall be connected to an smplifier having an input inpedance greater than 50 Megohms. The amplifier shall have a gain which does not vary more than \$2 db over a frequency range from 800 to 4,000 c.p.s. but cuts of sharply above 4000 c.p.s. The response may fall by 3 db at 600 c.p.s. but not more than 6 db per octave below that. The output of the amplifier shall be connected to a meter having a movement with a period of not less than 3 seconds and not greater than 5 seconds and an over-swing of approximately 15% when connected to the amplifier. The amplifier shall have such a gain that an input of 100 mV R.M.S. at approximately 1600 c.p.s. will give a full scale deflection on the output meter.

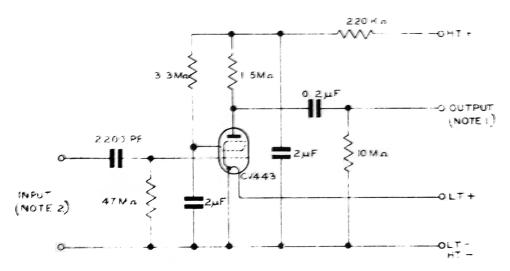
The valve shall be tested for microphony by tapping it steadily with a rubber headed mallet at a rate of approximately 3 times per second in such a direction and position on the valve that the greatest possible sustained microphony response is excited as indicated on the meter. The valve shall be rejected if the meter reading can be maintained at a value exceeding that corresponding to an input of 25 mV R.M.S. at approximately 1000 c.p.s. (A suggested mallet for tapping the valve is an ordinary lead pencil fitted at one end with a sleeve of india nubber approximately in thick).

PIN CONNEXIONS & OUTLINE DRAWING



CV 443

TEST CIRCUIT



NOTES I OUTPUT IS MEASURED BETWEEN OUTPUT TERMINAL & HT-