VALVE ELECTRONIC CV2737

Valve Circuit Unit, design C modified.

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2737/Issue No. 1.	SECURITY		
Dated: 26. 6. 53.	Specification	Valve	
To be read in conjunction with K1001, ignoring clauses 4 and 5.	Unclassified	Unclassified	

DESCRIPTION : Tuned Circuit Unit including one valve type CV354.			MARKING Unit and Crate :-				
Heater Voltage Heater Current Anode Voltage (max) Anode Current (max) Frequency Range	(V) (A) (V) (mA) (Mc/s)	6•3 0•4 350 50 590 -610	Note A	Serial No.:- J CV2737 KB/MRO DIMENSIONS See A.S.R.E. drawing. Drawing No. CR24432. (Not attached to this issue) PACKAGING See K1005/App. A.7.			
NOTEC							

NOTES

- The centre point of the range of tuning adjustment shall be at the frequency of 600 Mc/s.
- B. The CV354 must meet the specification for that valve.

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To be performed in addition to those applicable in K1001

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max	Tested	1000
1	The V.C.U. is to be tested in Amplifier M.56 in conjunction with Receiver P24A and Amplifier M.68					
b	Connect Signal Generator to receiver. With Signal Generator off, set receiver Gain Control to 1.05 volts of noise at 2nd detector, i.e. 0.21mA on 0-1 mA meter. Switch on Signal Generator and note output required to increase 2nd detector current to 0.3 mA. Connect Amplifier M.56 between Signal Generator and Receiver and repeat the procedure of (a) with the Gain readjusted to give 0.21 mA with no signal.	Not to be less than 135 db down on 1 watt. (=100 db down on 0.3 mW)		-	100%	
C	With Amplifier M.56 connected as in (b), adjust gain to give 2nd detector current of 0.05 mA with no signal. Switch on Signal Generator and find output needed to increase current to 0.6 mA.	R.F. Gain Note reading 'A'			100%	

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	Month of the state	Test	Limits		No.	Note
	Test Conditions	rest	Min.	Max.	Tested	1.000
đ	Connect Signal Genera- tordirectly to re- ceiver without alter- ing the gain setting. Switch on Signal Generator and increase output to again ob- tain 0.6 mA at the 2nd Detector. Note output reading.				100%	
0	R.F. Gain is given by difference of the two readings.	Gain = Reading 'B' minus Reading 'A' = at least 10 db. (db)	10	-	100%	

NOTES

- 1. All measurements to be made at a frequency of 600 Mc/s.
- 2. The tuning point for 600 Mc/s must be adjusted to occur approximately at the centre of travel of the plunger of the CV2737.
- A suitable Signal Generator is the Marconi Instruments Ltd. Type TF. 762C.

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