

Specification MAP/CV37/Issue 3	SECURITY	
Dated 14.1.49 To be read in conjunction with K1001	Specification Valve	_
ignoring clauses: - 5.2.2, 5.8, 7.2.	RESTRICTED UNCLASSIFIED	-

Indic	ates a	change) 		
TYPE OF VALVE - Velocity Modulated Osc	MARKING See K1001/4.				
<u>CATHODE</u> - Indirectly heated	- Indirectly heated				
ENVELOPE - Glass - urmetallised	ELOPE - Glass - urmetallised				
<u>rating</u>	I.O.				
		Note		PACKING	
Heater Voltage (V) Heater Current (A)	4.0 1.45			See K1005	
Minimum Oscillation Frequency (Mc/s) Maximum Oscillation Frequency (Mc/s)	3226 3370		Pin	Electrode	
Maximum Resonator Dissipation (W) AVERAGE WORKING CONDITIONS Resonator Voltage (V) Grid Voltage (V) Mean Resonator Dissipation (W) Minimum Power Output (mW)	1.2 -360 0 10.0		1 2 3 4 5 6 7 8 T.C.	Grid Heater No connection No connection No connection No connection Heater Cathode Reflector	
			Se	DIMENSIONS	
		<u> </u>		See page 3	

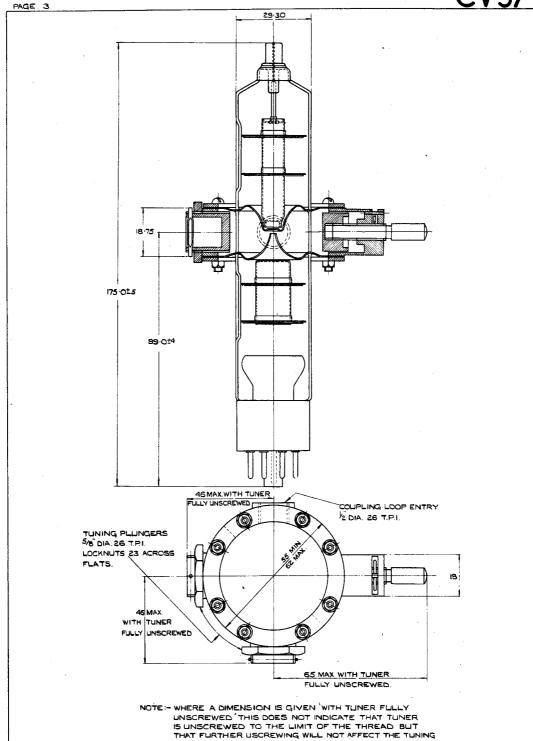
NOTES

- A The valve shall be processed to withstand a maximum anode voltage of not less than 3.0 kV. positive with respect to grid and reflector strapped.
- B The terms anode and resonator are synonymous.
- C In operation the temperature of the resonator must not exceed 100°C. and if the mounting gives insufficient cooling by conduction then artificial cooling must be used.
- D The valve has been designed to operate at zero grid voltage.
- E Variation of resonator and reflector voltages to cover the ranges shown in test clause (c) should be provided in equipments.

This valve type is obsolete and this specification is for record purposes only.

To be performed in addition to those applicable in K1001

	Test Conditions		ions	Test	Limits		No.	Notes	
	Test Odialtions					Min.	Max.	Tested	Notes
L	Vf	Vg	٧a	Vr					
a.		See K1001/5.3		3	H.C. Leakage Current (MA)	_	62.5	100%	
Ъ	4.0	0	0	0	I _h (A)	1.3	1.6	100%	
٥	4.0 Maxin		varied ower in	varied out 10W.	1. Range over which oscillations can be obtained (Mc/s)	3 226	to 3370	100%	
	vari	ed by	means o		2. Va over range (kV)			100%	
	set	and f	ine tune	rs.	3. Vr over range (V)	-300	-420	100%	
a	4.0	0	varied	varied	1. Power output at 3,300 Mc/s (mW)	200	-	100%	2
	to g osci when	ive a Llatio fine	tuner i	1cy ,300 Mc/s	2. Power output over full range of fine tuner, Va and Vr being left unchanged (mW)	100	-	100%	
	Va a	nd Vr num ot	ower ing adjuste utput at	d for	3. Fine tuner range (Mc/s)	65	-	1% (1)	
е		r test	varied t condit st (d).	1	Power output at 3,300 Mc/s. (mW)	100	-	100%	2
f	Other	test	varied t condit st (d)		Frequency drift to be measured from the time of application of electrode voltages to the cold tube to the time when a steady state has been reached.				2
			·		1. Positive drift (Mc/s)	_	0	1%(1)	
					2. Negative drift (Mc/s)	-	5.0	1%(1)	
	NOTES 1 - The symbol Vr is used to designate the reflector voltage. The symbol Va is used to designate the resonator voltage. 2 - For test clause (d), (e) and (f), Va and Vr must be within the limits given in test clause (c.2) and (c.3).								



ALL DIMENSIONS IN MILLIMETRES.