

Specification MAP/CV68/Issue 4. Dated 15.1.49 To be read in conjunction with K1001 ignoring clauses:- 5.2, 5.3, 5.8.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	RESTRICTED	UNCLASSIFIED

→ Indicates a change

<u>TYPE OF VALVE</u> - Magnetron <u>CATHODE</u> - Indirectly heated <u>ENVELOPE</u> - Copper <u>PROTOTYPE</u> - E.1198		<u>MARKING</u> See K1001/4
		<u>PACKING</u> See K1005
<u>RATING</u>	Note	<u>BASE</u> None
Heater Voltage (V)	6.0	<u>DIMENSIONS AND CONNECTIONS</u> See drawing on page 3
Heater Current (A)	1.2	
Nom. Operating Frequency (Mc/s)	3297	
Max. Anode Dissipation (W)	150	
<u>TYPICAL OPERATING CONDITIONS</u>		
Peak Anode Voltage (approx.) (kV)	8.0	A
Peak Anode Current (A)	7.0	A
Field Strength (gauss)	1050	A
Peak Power Output (kW)	7.0	A

NOTES

- A - When operating under these conditions, the magnetron must be air cooled such that the temperature of the block does not exceed 140°C.
- B - This valve is a selected CV38 for a particular application.

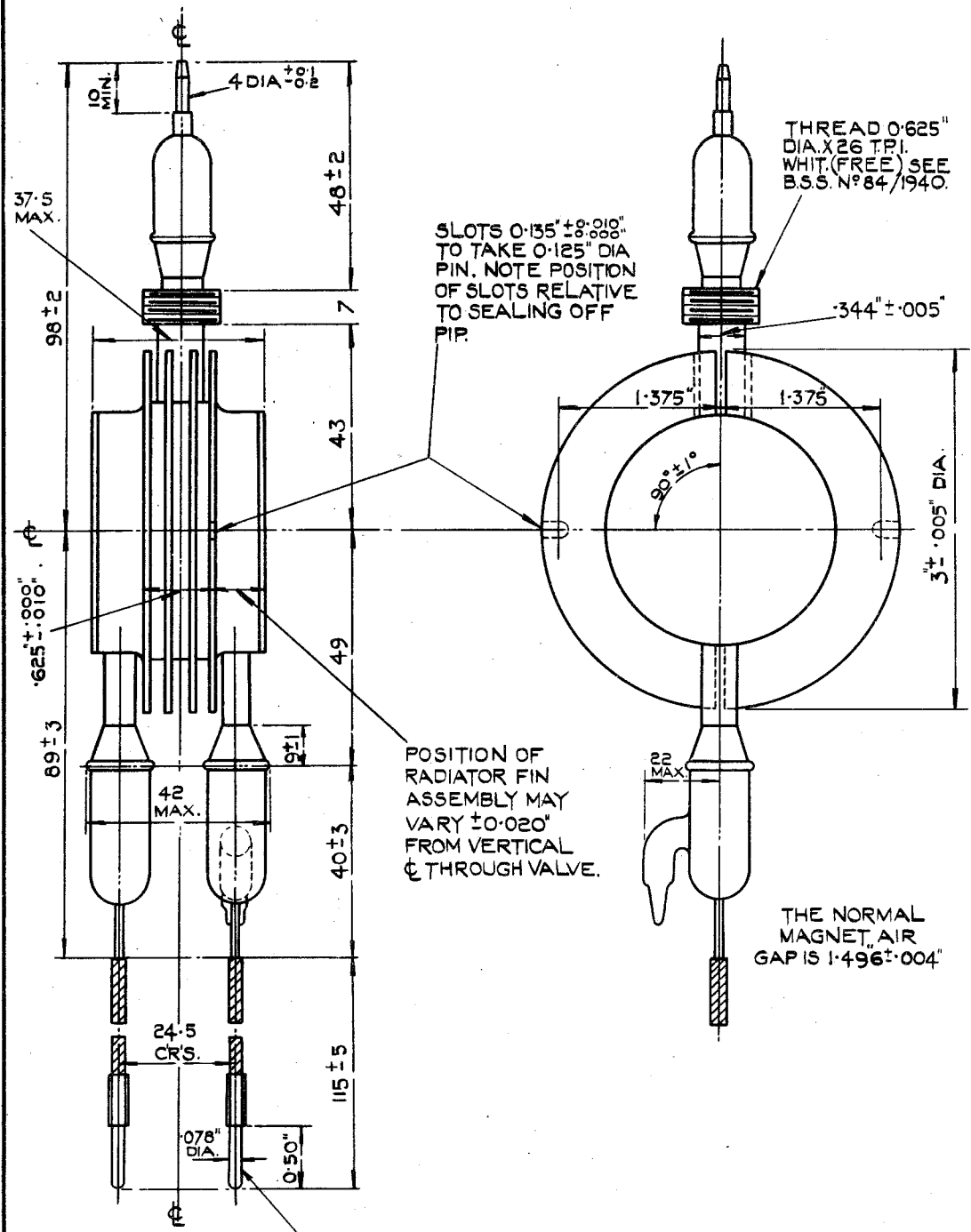
To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. Tested	Note
	Field Strength (gauss)	Vh	Peak Ia		Min.	Max.		
For the following tests the magnetron block shall be maintained at a temperature of $100 \pm 20^{\circ}\text{C}$ by means of air cooling.								
a	0	6.0	-	Ih (A)	1.0	1.5	100%	
b	1050	6.0	7.0	Peak Va (kV)	7.0	10.0	100%	1
c	1050	6.0	As in test (b).	Output Frequency (Mc/s)	3293	3300	100%	1
d	1050	6.0	Varied over range 5.0 to 9.0	The output frequency shall vary smoothly with input current, and shall show no discontinuity over this range of input current.			100%	1
e	1050	6.0	7.0	Peak output power (kW)	5.0	-	100%	1

NOTE

- 1 - Test to be carried out under approved conditions.
Modulation conditions shall be:-

Repetition Frequency 500 per sec.
Pulse Length 0.75 μsec .



CATHODE CONNECTED TO THIS LEAD.

ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE STATED.