## CV38

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Specification MAP/CV38/Issue 4 Dated 14.1.49 To be read in conjunction with K1001, ignoring clauses: - 5.2, 5.3, 5.8.	SECURITY Specification Valve UNCLASSIFIED								
Indica	tes a change								
TYPE OF VALVE - Magnetron  CATHODE - Indirectly heated  ENVELOPE - Copper	MARKING See K1001/4.								
PROTOTYPE - E.1198	PACKING See K1005.								
	BASE None								
RATING	DIMENSIONS AND CONNECTIONS								
Heater Voltage Heater Current Nom. Operating Frequency Max. Anode  (V) 6.0  (A) 1.2  (Mos) 3297	See drawing on page 3.								
Dissipation (W) 150 A  TYPICAL OPERATING CONDITIONS									
Peak Anode Voltage (approx.) (kV) 8.0 A									
Peak Anode Current (A) 7.0 A Field Strength (gauss) 1050 Peak Power Output (kw) 7.0 A									
NOTE									
A - When operating under these conditions, the magnetron must be air-cooled such that the temperature of the block does not exceed 140°C.									

## TESTS

CV38

To be performed in addition to those applicable in K1001

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Andreas and a supplementation of the suppleme	Tes Field Strength (Gauss)	t Cond	litions Peak I <sub>a</sub> (A)	Test		Li Min.	mits Max.	No. Test- ed.	Note	
For the following tests the magnetron block shall be maintained at a temperature of 1000 ± 200C. by means of air cooling.										
a.	0	6.0	em	Ih	(A)	1.0	1.5	100%		
ъ	1050	6.0	7.0	Peak Va	(kV)	7.0	10.0	100%	1	
C	1050	6.0	7.0	Output Frequence	cy (Mc/s)	3261	3333	100%	1	
đ	1050	6.0	Varied over range 5.0 to 9.0	The output vary smooth current, disconting range of	100%	1				
е	1050	6.0	7.0	Peak outp	out (kw)	5.0	615	100%	1	
f	The valve shall function satisfactorily in an equipment type T.3130.							100%	2	
NOTES										

## NOTES

- 1 Test to be carried out under approved conditions Modulation conditions shall be:- Repetition frequency 500 per sec. Pulse length 0.75  $\mu$  sec.
- 2 If, in tests (b), (c), (d) and (e), the test conditions simulate operation in an equipment type T.3130, then test (f) need not be carried out.

