VALVE ELECTRONIC CV186

Specification MAP/CV186/Issue 2. Dated 3.1.49 To be read in conjunction with K1001 ignoring clauses 5.2, 5.3, 5.8	SECURITY Specification Valve RESTRICTED UNCLASSIFIED
	Indicates change

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TYPE OF VALVE - Magnetron CATHODE - Indirectly heated			MARKING See KIGOl/14	
PROTOTYPE - Copper		Note	PACKING See K1005	
RATING Heater voltage V Heater current A Nominal operating frequency Mc/s Maximum Anode Dissipation W Typical operating conditions Peak Anode Voltage (Approx.) kV Peak Anode Current A Field Strength gauss Peak Power Output kV	6.0 1.25 3320 150 14 9.5 1350 35	A A A	BASE None DIMENSIONS & CONNECTIONS See drawing on Page 4	

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

Page 2. To be carried out in addition to those applicable in KlOOl.

	Test	ti ong		**************************************				
Clause	Test Conditions Field Strength		Test	Limits		No. Tested	Note	
	(gauss)	Vh	Peak Ia(A)		Min.	Max.		
	For the follat a temper	tained						
8.	Cold Impedation immediato the apparation a property of the determined by the determi		2 .					
Ъ	0	6.0	0	Ih A	1.0	1.5	100%	
o	1350 ± 25	6.0	10	Peak Va kV	12.0	14.0	100%	1
đ	1350 ± 25	6.0	10	Output frequency Mc/s	3305	3335	100%	1
	1350 ± 25	6.0	varied over range 6.0 to 12.0	The output frequency shall vary smoothly with input current and shall show no discont- inuity over this range of input current			100%	1
f	1350 ± 25	6.0	10	Peak output Power kW	25	-	100%	1
g	1350 ± 25	6.0	10	Limits will the position matching plu imum power of ording to the apparatus	100%			

NOTES

- 1. Test to be carried out in approved equipment. The matching shall be adjusted for Maximum power output. Modulation conditions shall be:- repetition frequency 2500 per sec., pulse length 1 μ sec. or other approved conditions.
- 2. The coupling loop in this valve must be shaped on a jig to ensure uniformity. Test clause 'a' will be carried out as a Type Approval test, and if it is satisfactory this is proof of the suitability of the jig.

NOTES FOR USERS

I. THE DIA. OF THE CIRCUIT TUBE OVER THIS
LENGTH MUST NOT BE LESS THAN 0.667"

Z. THE MINIMUM RADIATOR HOUSING WIDTH
MUST BE .625"

3 THE NORMAL MAGNET AIR GAP IS 1.496"±0.004"

