Specification MAP/CV1583/Issue 3 Dated 23-7-50	SECURITY		
To be read in conjunction with K1001, excluding clauses 5.2, 5.8.	Specification UNCLASSIFIED	Valve UNCIASSIFIED	

## > Indicates a change

TYPE OF VALVE - Transmitting Tetrode  CATHODE - Directly heated thoritungsten	MARKING See K.1001/4		
ENVELOPE - Metal-Glass Construction  COMMERCIAL - E. 1024			DIMENSIONS AND CONNECTIONS See drawing on Page 4
Filament Voltage (V) Filament Current (A) Max Anode Dissipation (W) Max operating frequency (Ms/s)	10.0 70.0 500 60	Note A A B	
Anode to all other electrodes Grid to all other electrodes Anode to grid (max)	20 35 2		

## NOTES

- A. Adequate cooling of the filaments leads and adjacent re-entrant portion of the envelope, shall be provided by at least 10 cu.ft. of air per minute with a pressure drop of the order of 2 inches of water.
- B. For this dissipation forced air cooling must be provided by at least 85 ou.ft. of air per minute with a pressure drop across the valve of the order of 2 inches of water.

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To be performed in addition to those applicable in Klool.

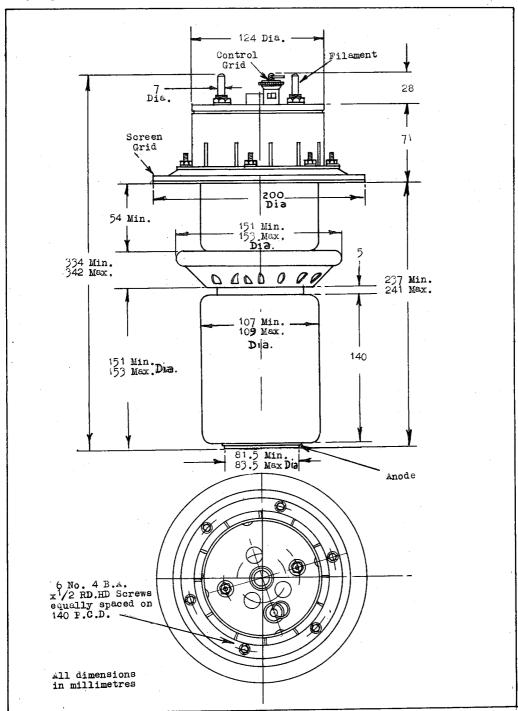
Te be performed in addition				Test		Limits Min. Max.		No. Tested		
Forced air cooling for the filament leads and the anode shall be previded by not more than 10 cu. ft. and 85 cu. ft. of air per minute, respectively with a pressure drop across the valve of the order of 2 inches of water.						10000				
	Wf 10.0	Va Raised slowly to 27.5 kV. and main- tained until flash- ing ceases See Note 1	Vg2 Strap	Vgl	Ia(m <u>A</u> ) A trace	HOT FLASH PRO Anode voltage maintained at kV. for a per 5 mins. without further flash See Note 1.	to be 27.5 ied of			100%
Ъ	10.0	0	0	0	-	If	(A)	66, 5	73.5	100%
o	10.0	1. 2kV.	1. 2kV.		420	Reverse Igl	(mA)	60	1.0	100%
ā	10.0	1. 2kV.	1.2kV.	•	420	Vgl	(₹)	-70.0	-105	100%
•	10.0	l. Okv. Reduced to 700	1.0kV. Reduced to 700	•	Main- tained at 200	Vgl change	(₮)	48	64	100%
2		300	300	300	Total cathode current 0.54	Vf	(₹)	•	6.0	100%
g	10.0	150	150	150	-	Total Is	(A)	0,9	1.5	100%
<b>h</b>	10.0 Strapped. Pulse of peak value 6kV., half sine wave shape, duration 2gsecs. and recurrence frequency 50 c.p.s. to be ambied				Io	(A)	79	•	% (4)	
3	See Kl001/AIII				CAPACITANCES  Ca-all  Cg-all  Cag	(pF)	16.0 26.3	24.0 43.7 2.0	# (1)	
k	Life A minimum average life of 500 hours is expected, life failure being considered to coour when the emission of the valve has fallen below 0.5 amp. at Vf. = 6.6 velts, other conditions as in test clause (f).									

TESTS

**CVI583** 

To be performed in addition to those applicable in K1001

angle maken of great librari	Test Conditions	Test	Limits Min. Max.	No. Tested
	NOTE	S		
1.	Once the conditions specifing the test conditions need in For this hot flash process series with the applied voparallel with the supply vitor.	ot be repeated f there shall be lts and a capaci	or acceptance a 300Ω resist tance of 0.25	testing. or in μF. in
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CV 1583/3/4

## VALVE TYPE VIII4A.

CV1583

