

CV1072

Specification MAP/CV1072/Issue 5 Dated 30.8.46. To be read in conjunction with K1001, ignoring clauses 5.2, 5.8, 7.2.	<u>SECURITY</u>	
	<u>Specification</u> RESTRICTED	<u>Valve</u> RESTRICTED

→ Indicates a change

<u>TYPE OF VALVE</u> : Half-wave mercury vapour rectifier <u>CATHODE</u> : Directly heated <u>ENVELOPE</u> : Glass unmetallised <u>PROTOTYPE</u> : GU50, RG1/240, MU4250		<u>MARKING</u> See K1001/4			
<u>RATING</u>		Note	<u>BASE</u> B4		
Filament Voltage (V)	4.0	A	Pin	Electrode	
Filament Current (nom.) (A)	3.0		1	No connection	
Max. Working Peak Inverse Volts (kV)	4.2		2	No connection	
Max. D.C. Output Current (A)	0.25		3	Filament	
Max. Temp. of Condensed Mercury (°C)	60		4	Filament	
Min. Temp. of Condensed Mercury (°C)	25		T.C.	Anode	
Max. Frequency of Supply (c.p.s)	150		<u>TOP CAP</u> See K1001/AI/D5.1		
Max. Peak Anode Current (A)	1.0		<u>DIMENSIONS</u> See K1001/AI/D1.		
Min. Choke inductance at max. D.C. output current (H) (Ratings apply to choke input filter and 50 cps. supply)	4.5		Dimension	Min.	Max.
			A (mm)	-	145
		B (mm)	-	51	
<u>NOTE</u> A. Filament voltage must be switched on at least 1 minute before the anode voltage.					

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Note
	Vf	Va	Ia(mA)		Min.	Max.		
a	4.0 (A.C. or D.C.)	0	0	If (A)	-	3.3	100% or S	
b	4.0 (A.C)	-	600	Va (V)	-	18	100%	1
c	4.0 (A.C)	Input 1500V.RMS. Voltage Frequency 50 cps DC. Load 250 mA. (nom.)		<u>Load Test</u> Run for 1 minute reject for persistent flashover			100%	2

NOTES

1. Voltage to be applied only for sufficient time to obtain a true reading.
2. If preferred, two valves may be run in a bi-phase half-wave circuit, with a nominal D.C. load current of 500 mA.