

MINISTRY OF SUPPLY (D.L.R.D.(A)/R.A.E.)

Specification MOSA/CV2738 Issue 1 Dated 10.9.52 To be read in conjunction with K.1001, excluding clauses 5.2; 5.8; 7.2.	SECURITY	
	<u>Specification</u>	<u>Valve</u>
	UNCLASSIFIED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Half-wave Mercury Vapour Rectifier CATHODE - Directly Heated ENVELOPE - Glass, unmetallised PROTOTYPE - CV.1072, RG1/240.		<u>MARKING</u> See K.1001/4	
		<u>BASE</u> B.4.	
<u>RATING</u>		<u>CONNECTIONS</u>	
	Note	Pin	Electrode
Filament Voltage (V)	4.0	1	No connection
Filament Current (nom.) (A)	3.0	2	No connection
Max. Working P.I.V. (kV)	4.2	3	Filament
Max. D.C. Output Current (A)	0.25	4	Filament
Max. Temp. of Condensed Mercury (°C)	60	T.C.	Anode
Min. Temp. of Condensed Mercury (°C)	25		
Max. Frequency of Supply c.p.s.	150		
Max. Peak Anode Current (A)	1.0		
Min. Choke Inductance at Max. D.C. Output Current (H)	4.5		
(Ratings apply to choke input filter and 50 c.p.s. supply)			
		<u>TOP CAP</u> See K.1001/A1/D5.1	
		<u>DIMENSIONS</u> See K.1001/A1/D1	
		Dimension	Min. Max.
		A (m.m.)	- 145
		B (m.m.)	- 48
<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 K.1001

Test Conditions				Test	Limits		No. Tested	Note
					Min.	Max.		
	Vf	Va	Ia(mA)					
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. R.M.S. Voltage Frequency 50 cps DC. Load 250 mA (nom.)		Load Test Run for 1 min. reject for per- sistent flash- over.			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.