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

VALVE ELECTRONIC **CV2218**

Specification MOSA/CV2218 Issue 4 Dated 21.1.54 To be read in conjunction with K.1001	SECURITY	
	Specification	Valve
	UNCLASSIFIED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Half Wave Rectifier

CATHODE - Indirectly Heated

ENVELOPE - Glass, unmetallised

PROTOTYPE - VX.7074

MARKING

See K.1001/4.

BASE

B9A.

RATING

			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.8	
Absolute Max. Peak Inverse Voltage	(V)	1450	
Max. Heater Cathode Potential	(V)	700	
Max. Peak Anode Current	(mA)	750	
Condenser Input Filter			
Max. R.M.S. Voltage	(V)	350 500	
Min. Supply Impedance	(ohms)	50 50	
Max. Direct Current Output	(mA)	125 75	
Max. Reservoir Condenser	(μF)	32 32	

CONNECTIONS

Pin	Electrode
1	Internally connected
2	Internally connected
3	Cathode
4	Heater
5	Heater
6	Internally connected
7	Internally connected
8	Internally connected
9	Internally connected
T.C.	Anode

TOP CAP

See K.1001/A1/D5.2. ←

DIMENSIONS

See K.1001/A1/D4.

Dimension	Min.	Max.
A mm	-	71.43
B mm	-	22.22
L mm	-	65.08

Z.5499.R.

CV2218

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. Tested	Note
	Vh	Va	Ia(mA)		Min.	Max.		
a	6.3	0	0	Ih (A)	0.72	0.88	100% or S	
b	6.3	550 R.M.S.	-	Output Current (mA)	76	-	100%	1,3,5
c	6.3	400 R.M.S.	-	Output Current (mA)	130	-	100%	2,3,5
d	6.3	Adjust	250	Va. (D.C.) (V)	24	40	100%	3
e	6.3	See K.1001/5.3. Except that the test voltage = 330		Ih-C (μA)	-	250	100%	1,3,4

NOTES

1. Measured in a half wave circuit with the total supply impedance (including transformer) initially adjusted so that a valve giving 150mA. for a voltage drop of 20.0 will give an output of 80 mA. with a load resistor of 8,000 ohms and a reservoir condenser of 32μF. The anode voltage shall be measured direct from anode to earth using a normal rectifier meter.

2. Measured in the same circuit as Note 1 except that the output shall be 135mA. with a load resistor 3,000 ohms.

3. The valve shall have operated at 500V. R.M.S., 76mA. min. continuously for a minimum period of two minutes before this test is performed.

4. Measured with cathode positive with respect to heater and a series resistor of 330 ohms max.

5. During this test the valve shall not exhibit sustained sparking or flashing when tapped.