

MINISTRY OF SUPPLY - DLRD(A)/RRE (South)

VALVE ELECTRONIC

CV 2235

Specification MOS(A)/CV2235

Issue 4 Dated 11.10.54.

To be read in conjunction with K1001.

SECURITYSpecificationValve

UNCLASSIFIED

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—————> Indicates a change

TYPE OF VALVE - Half-wave Rectifier				<u>MARKING</u>		
CATHODE - Indirectly-heated				See K1001/4		
ENVELOPE - Glass - Unmetallised				<u>BASE</u>		
PROTOTYPE - VX8091: VX7087: E2214				B9A		
<u>RATING</u>				<u>CONNECTIONS</u>		
				Pin	Electrode	
Heater Voltage (V) 6.3				1	Internally connected	
Heater Current (A) 1.15				2	Internally connected	
Max. Peak Inverse Voltage (kV) 1.8				3	Cathode	
Max. Reservoir Condenser (μF) 16				4	Heater	
Max. Peak anode Current (mA) 900				5	Heater	
Design Centre Voltage Drop at 150 mA (V) 22				6	Internally connected	
Max. Heater - Cathode Voltage (V) 650				7	Internally connected	
				8	Internally connected	
				9	Internally connected	
				TC	Anode	
<u>625V RMS Operation</u> (Note C)				<u>TOP CAP</u>		
Max. Mean Anode Current (mA) 125				See K1001/A1/D5.2		
Min. Limiting Resistance (ohms) 250						
<u>500V RMS Operation</u> (Note D)				<u>DIMENSIONS</u>		
Max. Mean Anode Current (mA) 150				See K1001/A1/D4		
Min. Limiting Resistance (ohms) 150						
				Dimensions (mm)	Min.	Max.
				A	-	83
				B	-	22.2
				L	70	75
				<u>MOUNTING POSITION</u>		
				Any		

NOTES

A. Absolute maximum value.

B. Cathode positive

C. At 625-0-625V RMS input, condenser input filter, two valves giving a total of 250 mA.

D. At 500-0-500V RMS input, condenser input filter, two valves giving a total of 300 mA.

To be performed in addition to those applicable in K1001

Test Conditions			Test	Limits		No. Tested	Note
				Min.	Max.		
a	Vh 6.3	Va 0	Ia(mA) 0	Ih (A)	0.9	1.4	100%
b	6.3	Adjust	150	Va (DC) (V)	18	26	100%
c	6.3	625 RMS	-	Output Current (mA)	140	-	100% 1,2 & 3
d	6.3	625 RMS	125	Valve when switched directly from cold shall exhibit no internal flashing or sparking.		TA	

NOTES

1. Measured in a half-wave circuit with the total supply impedance (including transformer) adjusted to 250 ohms, using a total load resistance of 4,100 ohms and a reservoir condenser of 16 μ F. The anode voltage shall be measured direct from anode to earth using a normal rectifier meter.
2. The valve shall have operated at 625V RMS, 150 mA min. continuously for a minimum period of two minutes before this test is performed. This may be on a pre-heating schedule.
3. During this test the valve shall not exhibit sustained sparking or flashing when tapped.