MINISTRY OF SUPPLY(D.C.D.) RRE

VALVE ELECTRONIC **CV2180**

Specification MAP/CV.2180 Issue 2 Dated 8.10.1951 To be read in conjunction with K1001 excluding clauses 5.2, 5.3, 5.8	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Half Wave Rectifier
CATHODE - Indirectly Heated
ENVELOPE - Glass unmetallised
PROTOTYPE - VX.6095

MARKING
See K1001/4

BASE I.O. See K1001/A1V/D2 M Dimension (V) applies

RATING			Note
Heater Voltage	(V)	2.5	
Heater Current	(A)	1.7	
Max. Applied R.M.S. Voltage	(KV)	8.3	
Max. Working P.I.V.	(KV)	20	
Max. No Load P.I.V.	(kV)	23	
Max. Mean D.C. Rectified Current	(mA)	30	
Max. Peak Anode Current	(mA)	180	
Max. Reservoir Condenser	(μF)	0.5	C
Min. Limiting Resistance introduced externally	(ohms)	18,000	
H.T. switching delay period(secs) for full ratings	(secs)	10	B

CONNECTIONS

Pin	Electrode
1	No connection
2	H
3	No connection
4	No connection
5	No connection
6	No connection
7	H + K
8	No connection
Top Cap	Anode

TOP CAP
See K1001/A1/D5.2

DIMENSIONS

Dimensions	Min.	Max.
Length(mm)	115	129
Diameter(mm)		40

NOTES

A. Ratings apply to operation with condenser input filter and a supply frequency of 50 c.p.s.

B. The valve shall withstand direct switching for reduced ratings i.e. 5kV applied voltage at 5mA.

C. For a supply frequency of 1600 c.p.s. the Reservoir condenser shall be 0.01μF

D. Valve holder contacts 1,3,4,5,6 & 8, should be connected to contact 7. The Reservoir condenser shall also be connected to contact 7.

CV2180

TESTS

To be carried out in addition to those applicable in K1001

	Test Conditions		Test	Limits		No Tested	Note
				Min.	Max.		
	Vh	Va				100%	
a	2.5	-	Ih (A)	1.53	1.87	or S	
b	2.5	115V D.C. Max.	Ia (mA)	52	-	100%	1
c	2.5	Input Voltage 8.3kV R.M.S. Frequency 50 c.p.s. D.C. Load current 30mA (nominal) Reservoir condenser 0.5μF Effective resistance introduced externally 18,000 ohms	Load Test Run for 1 minute Reject for softness and persistent flashover.			100%	

NOTES

1. Applied only for sufficient time to obtain a steady reading (approx. 2 secs.)