VALVE ELECTRONIC **CV2109**

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2109/Issue No.2. Dated 12.2.52. To be read in conjunction with K1001.	SECURITY	
	Specn.	Valve
	Unclassified	Unclassified

→ indicates a change

TYPE OF VALVE:- Xenon Thyratron Triode Type.
CATHODE:- Directly Heated.
ENVELOPE:- Glass.
PROTOTYPE:- VX4099.

MARKING
See K1001/4.

BASE
B4
See K1001/AIV/D5.1.

RATING

			Note
Filament Voltage	(V)	2.5	A
Filament Current	(A)	5	A
Peak Hold Off Va	(V)	1000	
Peak Inverse Va	(V)	1500	
→ Peak Ia	(A)	2	
Mean Ia	(A)	0.5	
→ Grid Bias Voltage	(V)	-100	B

CONNECTIONS

Pin	Electrode
1	No connection
2	Grid
3	Filament
4	Filament
TC	Anode

TOP CAP
See K1001/AI/D5.1.

DIMENSIONS
See K1001/AI/D1.

Dimension	Min.	Max.
A (mm)	110	125
B (mm)	36	40

PACKING
See K1005.

NOTES

→ A. The filament must be run for 20 secs. before an anode current in excess of 20 mA peak may be passed.

B. Applied through 10 megohms max.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Notes
	Vf (V)	Va (V)	Vg (V)		Min.	Max.		
a	2.5	-	-	If (A)	4.5	5.3	100%	
b	2.5	-	0	Va for Striking (V)	15	100	100%	1
	Va increased through 200 ohms until the valve strikes.							
c	2.5	500	-	-Vg for hold off using 10 Megohm Rg (V)	-	12	100%	1,2
d	2.35	-	0	Va with Ia = 0.5 A. (V)	6	12	100%	1,2

NOTES

1. The filament must be run for 20 secs. before an anode current in excess of 20 mA peak may be passed.

2. Grid and Anode circuits both to be connected to mid point of Transformer winding supplying cathode heating.