

MINISTRY OF SUPPLY (S.R.D.E)

Specification MOS/CV572/Issue 4 Dated:- 8.7.46 To be read in conjunction with K1001 ignoring clauses:- 5.2 and 5.8	<u>SECURITY</u> <u>Specification</u> <u>Valve</u> Restricted Restricted
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→ indicates a change

<u>TYPE OF VALVE</u> :- High Vacuum full wave rectifier <u>CATHODE</u> :- Indirectly heated <u>ENVELOPE</u> :- Glass - unmetallised <u>PROTOTYPE</u> :- 6X5G	<u>MARKING</u> See K1001/4 Additional marking:- 6X5G
<u>RATING</u>	<u>BASE</u> IO
	Note
Heater voltage (V) 6.3	Pin Electrode
Nominal heater current (A) 0.6	1 No connection
Max. applied R.M.S. voltage (V) 325	2 Heater
Max. working peak inverse voltage (V) 900	3 Anode
Max. no load peak inverse voltage (V) 1100	4 Pin omitted
Max. mean D.C. rectified current (mA) 70	5 Anode
Max. peak anode current (mA) 210	6 Pin omitted
Max. reservoir condenser (uF) 16	7 Heater
Min. limiting resistance per anode (ohms) 150	8 Cathode
Max. D.C. heater-cathode potential (V) 450	<u>DIMENSIONS</u> See K1001/AI/D1
(Ratings apply to condenser input filter and 50 c.p.s. supply).	Dimension Min. Max.
	A mm - 105
	B mm - 40

TESTS

To be performed in addition to those applicable in K1001

	Test conditions		Test	Limits		No. tested
				Min.	Max.	
	Vh	Va				
a	250 volts D.C. applied between heater and cathode with cathode positive with respect to heater.		Heater cathode insulation leakage current (uA)	-	250	100%
b	6.3 A.C. or D.C.	-	Ih (A)	-	0.66	100% or S
c	6.3 A.C. or D.C.	30 D.C. max.	Ia (mA) (Note 1)	80	-	100%
d	6.3 A.C.	Input voltage 325-0-325 R.M.S. Frequency 50 c.p.s. D.C. load 70 mA Reservoir con- denser 4 uF. Effective resistance per anode introduced externally 150 ohms.	<u>Load test</u> Output voltage Run 1 minute reject for softness or persistent flashover.	350	-	5% (20)

NOTES

1. Test to be applied to each anode.

HIGH VACUUM
FULL-WAVE RECTIFIER

DATA SHEET

VALVE ELECTRONIC **CV572**
6X5G

Data given for information of equipment designers and not subject to acceptance testing.

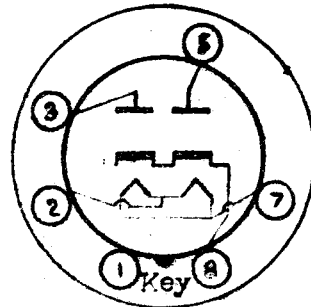
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Vh = 6.3 V.

Ih = 0.6 A.

See specification for dimensions, connections and main ratings (with condensed input filter).



Bottom
View

TYPICAL OPERATING CONDITIONS WITH CHOKE-INPUT FILTER

A.C. Voltage Per Anode (V. R.M.S.)	...	450
Input Choke-Inductance (Henries)	...	8 (Min.)
D.C. Output Current (mA)	...	70

NOTE

The drop across the valve at a current of 75 mA. is approximately 22 volts.

FIG 1
AVERAGE PLATE CHARACTERISTIC.

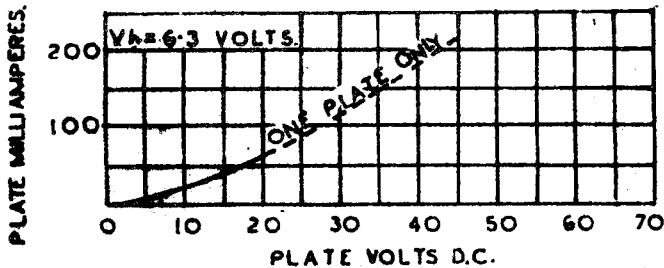


FIG 2
OPERATION CHARACTERISTICS.

- CHOKE (L) INPUT TO FILTER:
L = 8 HENRIES (MIN).
- CONDENSER (C) INPUT TO FILTER
C = 4μf; TOTAL EFFECT. PLATE-SUPPLY
IMPEDANCE PER PLATE = 150 OHMS,
Vh = 6.3 VOLTS.

