

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

Specification MOS/CV574/Issue 2 Dated:- 12.1.48 To be read in conjunction with K1001, ignoring clauses:- 5.2 and 5.8.	<table border="1"> <tr> <th colspan="2"><u>SECURITY</u></th></tr> <tr> <td><u>Specification</u> Restricted</td><td><u>Valve</u> Unclassified</td></tr> </table>	<u>SECURITY</u>		<u>Specification</u> Restricted	<u>Valve</u> Unclassified
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→ indicates a change

<u>TYPE OF VALVE:-</u> High Vacuum full wave rectifier			<u>MARKING</u> See K1001/4 Additional marking:- 6X5GT		
<u>CATHODE:-</u> Indirectly heated					
<u>ENVELOPE:-</u> Glass, unmetallised					
<u>PROTOTYPE:-</u> 6X5GT					
<u>RATING</u>			See K1001/A1/D2 M Dimension BASE (iv) applies IO		
			Note		
			Pin Electrode		
Heater voltage	(V)	6.3	1	Not connected	
Nom. Heater current	(A)	0.6	2	Heater	
Max. applied RMS Voltage	(V)	325	3	Anode 1	
Max. working peak inverse voltage	(V)	900	4	Pin omitted	
Max. no load peak inverse voltage	(V)	1100	5	Anode 2	
Max. mean D.C. rectified current	(mA)	70	6	Pin omitted	
Max. peak anode current	(mA)	210	7	Heater	
Max. reservoir condenser	(μF)	16	8	Cathode	
Min. limiting resistance per anode	(ohms)	150			
Max. D.C. Heater-cathode potential	(V)	450			
(Ratings apply to condenser input filter and 50 c/s supply)					
			<u>DIMENSIONS</u> See K1001/A1/D1		
			Dimension Min. Max.		
			A mm - 84.3		
			B mm - 33.5		

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested
				Min.	Max.	
a	Vh 250 volts D.C. applied between heater and cathode with cathode positive with respect to heater	Va	heater cathode insulation leakage current (μ A)	-	250	100%
b	6.3 v A.C. or D.C.	-	Ih	-	0.66	100% or S
c	6.3 v A.C. or D.C.	30 D.C. max.	Ia (mA) (Note 1)	80	-	100%
d	6.3 v A.C.	Input voltage 325-0-325 RMS., frequency 50c/s, DC load 70 mA Reservoir condenser 4 μ F Effective resistance per anode introduced externally 150 Ω	<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.