

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

Specification AD/CV378/Issue 7 Dated 4.11.54. To be read in conjunction with K1001 ignoring clauses 5.2 5.8			<u>SECURITY</u>		
			<u>Specn.</u> Unclassified	<u>Valve</u> Unclassified	
→ Indicates a change					
<u>TYPE OF VALVE</u> :- High vacuum full wave rectifier.			<u>MARKING</u> See K1001/4.		
<u>CATHODE</u> :- Indirectly heated			<u>BASE</u> IO See K1001/AIV/D2		
<u>ENVELOPE</u> :- Glass - unmetallised.					
<u>PROTOTYPE</u> :- R231 (45IU with 5V heater).					
<u>RATING</u>			<u>Pin</u>	<u>Electrode</u>	
			<u>Note</u>		
Heater Voltage (V)	5.0		1	No connection	
Heater Current (A)	2.8		2	Heater	
Max. Working Peak Inverse Voltage (V)	1250	A	3	Omitted	
Max. no load Peak Inverse Voltage (V)	1600	A	4	Anode	
Max. Mean Anode Current (mA)	250	A,B	5	Omitted	
Max. Peak Anode Current (A)	1.25	A	6	Anode	
Min. Limiting resistance per anode introduced externally (ohms)	75	B	7	Omitted	
Voltage drop at 250 mA. (Each anode) (Nominal) (V)	42		8	Heater and Cathode	
			<u>DIMENSIONS</u> See K1001/AI/DI		
			<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
			A mm	136	142
			B mm	42	57.5
<u>NOTE</u>					
A. Absolute Maximum Value					
B. Applies to condenser input filter					

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested
	V _h (V)	V _a (V)		Min.	Max.	
a	5.0 A.C. or D.C.	0	I _h (A)	2.5	3.1	100%
b	5.0 A.C. or D.C.	55 max. Adjust for I _a = 250 mA	V _a - Each anode (V) (max)	38 250	50 -	100%
c	5.0 A.C. or D.C.	Input 500 - 0-500V R.M.S. 50 cycles. Reservoir condenser 4 μF. Load current 250 mA (Nom) Effective resistance introduced externally = 75 ohms.	<u>Load Test</u> Reject for softness or persistent flashover.			100%