

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

Specification: MCS/CV128/Issue 3 Dated:- 5.9.47 To be read in conjunction with K1001, ignoring clauses:- 5.2, 5.8.	<u>SECURITY</u> Specification Restricted	Valve Unclassified
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→ indicates a change

<u>TYPE OF VALVE</u> :- High vacuum half-wave rectifier.		<u>MARKING</u> See K1001/4	
<u>CATHODE</u> :- Indirectly heated			
<u>ENVELOPE</u> :- Glass - unmetallised			
<u>PROTOTYPE</u> :- SU750			
<u>RATING</u>		<u>BASE</u> T4	
		Note	
Heater voltage (V)	10.0	Pin	Electrode
Heater current (A)	2.4	1	No connection
Max. applied input voltage R.M.S. (V)	3000	2	Heater and cathode
Max. working peak increase voltage (V)	7500	3	No connection
Max. no-load peak increase voltage (V)	9000	4	Heater
Max. D.C. output current (mA)	250	T.C	Anode
Max. peak anode current (A)	2.0	<u>DIMENSIONS</u>	
Max. reservoir condenser (μ F)	4.0	See K1001/AI/D1	
Min. limiting resistance for max. rated conditions (ohms)	500	Dimension	Min Max
Min. delay period before H.T. is applied (secs)	20	A mm	170 182
		B mm	59 65

TESTS

To be performed in addition to those applicable in K1001

	Test Conditions		Test	Limits		No. Tested
				Min	Max	
a	Vf	Ia (mA)	If (A)	-	2.65	100%
	10.0 A.C. or D.C.	-				
b	10.0 A.C. or D.C.	300 (min)	Voltage drop (V)	-	60	100%
c	10.0 A.C.		<p>3000 V.R.M.S. 50 c.p.s. D.C. load current 250 mA (nominal)</p> <p>Reservoir condenser 4.0 μF.</p> <p>Effective resistance introduced externally 500 ohms. Cathode to be heated for 20 secs before H.T. is applied. Run for 2 mins. then switch H.T. 3 times, 5 secs. off, 5 secs. on.</p> <p>Reject for softness or persistent flash over.</p>			100%