

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

Specification: MOS/CV128/Issue 3

Dated:- 5.9.47

To be read in conjunction with K1001,
ignoring clauses:- 5.2, 5.8.SECURITYSpecificationValve~~Restricted~~

Unclassified

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→ indicates a change

<u>TYPE OF VALVE</u> :- High vacuum half-wave rectifier.			<u>MARKING</u>		
<u>CATHODE</u> :- Indirectly heated			See K1001/4		
<u>ENVELOPE</u> :- Glass - unmetallised					
<u>PROTOTYPE</u> :- SU750					
<u>RATING</u>			<u>BASE</u>		
			T ₄		
			Note		
Heater voltage (V)			10.0	Pin	Electrode
Heater current (A)			2.4	1 No connection 2 Heater and cathode 3 No connection 4 Heater T.C Anode	
Max. applied input voltage R.M.S. (V)			3000		
Max. working peak increase voltage (V)			7500		
Max. no-load peak increase voltage (V)			9000		
Max. D.C. output current (mA)			250		
Max. peak anode current (A)			2.0	<u>DIMENSIONS</u> See K1001/AI/D1	
Max. reservoir condenser (μF)			4.0		
Min. limiting resistance for max. rated conditions (ohms)			500	Dimension	
Min. delay period before H.T. is applied (secs)			20	Min	
				Max	
				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	
	Vf	Ia (mA)				
a	10.0 A.C. or D.C.	-	If (A)	-	2.65	100%
b	10.0 A.C. or D.C.	300 (min)	Voltage drop (V)	-	60	100%
c	10.0 A.C.		3000 V.R.M.S. 50 c.p.s. D.C. load current 250 mA (nominal) Reservoir condenser 4.0 μF. 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. Reject for softness or persistent flash over.			100%