

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV1290/Issue 3. Dated 10.6.47. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specn.</u> Restricted	<u>Valve</u> Unclassified

<u>TYPE OF VALVE:-</u> Half-wave high-vacuum rectifier <u>CATHODE:-</u> Indirectly heated <u>ENVELOPE:-</u> Clear glass <u>PROTOTYPE:-</u> SU2150A			<u>MARKING</u>		
			See K1001/4.		
			<u>BASE</u>		
			B4 See K1001/AIV/D5.		
			Pin	Electrode	
			1	No connection	
			2	No connection	
			3	Heater and cathode	
			4	Heater	
			TC	Anode	
<u>RATING</u>			<u>TOP CAP</u>		
			See K1001/AI/D5.4.		
Heater voltage (V) 2.0 Heater current (A) 1.5			<u>DIMENSIONS</u>		
			See K1001/AI/D1.		
Max. R.M.S. Anode Voltage (V) 5,000 Max. rectified current (mA) 10			Dimension	Min.	Max.
			A mm	-	145
			B mm	-	51
			<u>PACKING</u>		
			See K1001/7.		

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions		Test	Limits		No. Tested
	Vh (V)			Min.	Max.	
a	2.0		Ih (A)	-	1.7	1% (20)
b	2.0	Operation in conventional half-wave rectifying circuit $V_a = 5$ kV R.M.S. Load $R = 0.5$ M Ω . Smoothing condenser = 0.25 μ F. For 1 min.	During this period, there must be no sign of softness or discharge between the electrodes.			100%
c	2.0	As test 'b' for 10 minutes.	As test 'b'.			1% (20)
d	2.0	V_a (D.C.) only applied for sufficient time to give a steady reading of $I_a = 50$ mA.	V_a (V)	-	200	100%