

ADMIRALTY SIGNAL ESTABLISHMENT

Specification AD/CV94/Issue 4. Dated 5.12.46. To be read in conjunction with K1001.	<u>SECURITY</u>	
	<u>Specn.</u> Restricted	<u>Valve</u> Unclassified

<p><u>TYPE OF VALVE</u>:- Diode switch.</p> <p><u>CATHODE</u>:- Indirectly heated.</p> <p><u>ENVELOPE</u>:- Metal - glass.</p> <p><u>PROTOTYPE</u>:- DS.103.</p>	<p style="text-align: center;"><u>MARKING</u></p> <p>See K1001/4.</p> <p><u>Additional Marking</u>:-</p> <p>Serial No.</p>
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<u>RATING</u>			<u>DIMENSIONS AND CONNECTIONS</u>
	Note		
Heater Voltage (V)	6.0		See Fig. 1, Page 3.
Heater Current (approx.) (A)	7.5		<u>PACKING</u>
<u>CAPACITANCES (pF.)</u> (approx.)			See K1001/7.
Cac	14	A	

NOTE

A. Measured at 90 Mc/s with $V_h = 6.0$ V.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions			Test	Limits		No. Tested	Note
	Vh (V)	Va (V)	Ia (A)		Min.	Max.		
	a	0	-		-	Insulation test		
Va applied using a 500 V megger for 10 secs. Valve must not break down.								
b	6.0	-	-	Ih (A)	6.9	8.2	100%	
c	6.1	Ad-justed	100 (peak)	Va (V)	-	1500	100%	1
	Va applied in 10 μ Sec. pulses with recurrence frequency 50 pps.				Characteristic to be maintained for 2 mins.			
d	Valve hot. Effective parallel resistance of valve measured on a 'Q' meter at 90 Mc/s.			H.F. Loss			100%	2
e	6.0	Capacitances of valve at 90 Mc/s.		Cac (pF)	11.5	15.2	100%	

NOTES

- 5% of the valves tested for 2 minutes shall be tested for an additional 30 minutes under the same conditions.
- The loss shall not be greater than that in a given standard which is held by A.S.E. (This standard will be made up from an Erie R.M.A.S. resistor, value 100,000 ohms).

