

ADMIRALTY SIGNAL ESTABLISHMENTVALVE ELECTRONIC**CV102**

Specification AD/CV102/Issue 5. Dated 7.3.47. To be read in conjunction with K1002.		<u>SECURITY</u> <u>Specn.</u> <u>Valve</u> Restricted Unclassified	
<u>TYPE OF VALVE:-</u> Crystal.		<u>MARKING</u> Crystal Valves:- A yellow & an orange spot or CV102.	
<u>RATING</u>		<u>DIMENSIONS</u> See K1002/AI.	
Frequency Range of Operation (Mc/s) Wavelength (cm)	2,500-6,000 12-5	<u>PACKING</u> As separately instructed.	

TESTS

	K1002 para. ref.	Test	Limits, etc.	No. Tested	Note
a	6.2	Back to forward resistance ratio.	10 : 1 min.	100%	A
b	6.3.2	Forward resistance.	250 ohms max.	100%	A
c	6.4.2	Resistance to voltage breakdown.	After application of 4.5 V and a wait of more than two minutes, test 'd' shall be applied.	100%	
d	6.4.3	Tests 'a' and 'b' repeated.	(See tests 'a' and 'b' above).	100%	
e	6.5	Noise factor.	At some point in the frequency range 2700-3350 Mc/s (11 to 9 cm): Max. predict- ed NF: 14 db SPY.	100%	

NOTE

- A. This figure applies only to the factory test. Subsequently the back to forward resistance ratio may fall, and the forward resistance rise, when crystal valves within the following limits may be regarded as satisfactory for operational use:-
- (a) Back to forward resistance ratio (min.) 8 : 1.
- (b) Forward resistance (max.) 265 ohms.