

Specification MAP/CV112/Issue 5 Dated 15.1.49 To be read in conjunction with K1002	SECURITY	
	<u>Specification</u> <del>SECRET</del> Unclassified	<u>Valve</u> UNCLASSIFIED

→ Indicates change

<u>FREQUENCY RANGE</u>  The crystal valve is intended to operate within a frequency range:-  12,000 - 6,000 Mc/s (2.5 - 5.0 cms).	<u>MARKING</u>  <u>Crystal Valves</u>  An orange and green spot or CV112.
	<u>PACKING</u>  See K1005
	<u>DIMENSIONS</u>  See K1002/AI.

	K1002 Para. ref.	Test	Limits	No. Tested	Note
a	6.2	Back to forward resistance ratio	10 : 1 min.	100%	1
b	6.3	Forward resistance ( $\Omega$ )	250 max.	100%	1
c	6.4.2	Resistance to Voltage Breakdown	After application of 4.5V. and a wait of not more than 2 mins. test 'd' shall be applied.	100%	
d	6.4.3	Test 'a' and 'b' repeated.	See tests 'a' and 'b' above.	100%	
e	6.5	Noise factor	At some point in the frequency range 10,700 - 8,600 Mc/s (2.8 - 3.5 cms.) Max. predicted NF, 14 db. S.P.G.	100%	

NOTES

- 1 - 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 $\Omega$
- 2 - Tests 'a', 'b' and 'e' are repeatable. Test 'c' is non-repeatable.