VALVE ELECTRONIC CV101

ADMIRALTY SIGNAL ESTABLISHMENT

| Specification AD/CV101/Issue 4<br>Dated 10.1.46.<br>To be read in conjunction with K1002. | SECURITY<br>Specification ~~Restricted~~ Unclassified<br>Valve ~~Restricted~~ Unclassified |
|---|---|

| FREQUENCY RANGE | MARKING | DIMENSIONS |
|---|---|---|
| in which crystal valve is intended to operate:<br>2,500 - 6,000 Mc/s<br>(12 - 5 cm.) | Crystal Valves:- A yellow spot or CV101.<br>Packing:- As separately instructed. | See K1002/A1 |

NON-REPEATABLE TESTS:- 'c'

REPEATABLE TESTS:- 'a', 'b', 'e'.

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. | Forward resistance. | 250 ohms max. | 100% | A |
| c | 6.4.1. | Resistance to voltage breakdown V = 1.4 V. T = 5 mins. | (See test 'd') | 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 - 9 cm.):<br>Max.predicted NF:- 14 db SPY. | 100% | |

NOTES

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.