VALVE ELECTRONIC

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

CV5137

Specification AD/CV5137 Issue No. 1 dated 16.1.58	SECURITY		
To be read in conjunction with K1001 ignoring Clauses 5.2 and 5.8.	Specification Unclassified	<u>Valve</u> Unclassified	

TYPE OF VALVE: Crystal Protection Cell PROTOTYPE: CV106/CV976		MARKING See K1001/4			
RATINGS		Note	DIMENSIONS See Drawing on page 3.		
Operating Frequency (Mc/s) Min. Primer Operating Current (/uA)	3450 to 3614 100	A			

NOTES

A. Primer current to be limited by a series resistance of which at least 1.0 Megohm must be adjacent to the valve.

TEST9

To be performed in addition to those applicable in K1001 and after a holding period of 7 days.

	Test Conditions	Test	Limits		No. Tested	Note
			Min.	Max.	103404	<u> </u>
a	The transmission line shall be energised by not more than 100 mW RF. The frequency tuning range shall be obtained by adjusting the two tuners.	Frequency Range (Mc/s)	3450 to 3614	-	100%	1
Ď,	Test shall be performed at least 7 days after any previous discharge.	Primer Breakdown (Secs)	-	5	100%	
,	Note A page 1.	The delay between the application of 800V D.C. primer voltage and the initial breakdown shall be measured.				
c	The valve is to be tested in the circuit shown in Fig. 1 and the applied voltage smoothly increased to 800v. A discharge must occur and the readings of voltage and current across the gap are to be noted.	i. Voltage between primer and resonator during discharge. (V) ii. Primer Current (MA)	25%	"		

NOTES

The upper limit of the frequency range is found by turning the tuning slugs in as far as possible, and then measuring the resonant frequency of the cavity in that state. The lower limit of the frequency range is found by removing the tuning slugs, then screwing them two turns back into the cavity, and measuring the resonant frequency of the cavity in that state.



