ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

VALVE ELECTRONIC CV103

Specification AD/CV103 Issue 6 dated 1st September 1955 To be read in conjunction with K1001	SECURITY Specification: Unclassified	Valve: Unclassified

→ Indicates a change

TYPE OF VALVE:- Crystal

MARKING
CV103 ←

RATINGS

DIMENSIONS

K.1001/A.1/D.8

→ Max. Frequency of Operation (Mc/s)	6000	
Min. Back to Forward Resistance Ratio	8:1	A
Max. Forward Resistance (ohms)	265	A

NOTE

A. Measured with 1.5V source and a series resistance of 500 ohms ←

To be performed in addition to those applicable in K1001

	Test Conditions	Test	Limits Min.	Limits Max.	No. Tested	Note
a	The crystal shall be subjected to 3000 pulse discharges in the conducting direction (Spaced at least 200 μ secs apart) from an 18 pF condenser at an energy level of 0.3 ergs.	Resistance to Burn-out The crystal shall subsequently pass the tests specified below	-	-	100%	
b		Back to forward resistance ratio	10:1	-	100%	1
c		Forward resistance (Ohms)	-	250	100%	1
d	The overall performance to be measured in the standard test gear (Pattern 65682X Performance Meter for Crystal Valves).	Performance Measurement db's below "standard best"	-	4.5	100%	2

NOTES

1. Measured with 1.5 Volts source and a series resistance of 500 ohms.
2. A.S.R.E. will calibrate standard crystals relative to the "standard best". Sub-standard crystals should be chosen by the manufacturer for routine checks.