Page 1 (No. of pages: 2) MINISTRY OF SUPPLY (D. C. D.)

K. 1002.

VALVE ELECTRONIC C V 24

SECURITY

Specification MAP/CV241/Issue 4 Dated 19.1.49 To be read in conjunction with

Specification

Valve

RESTRICTED

UNCLASSIFIED

Tudicates a change

Indicates a change							
FREQUENCY RANGE	MARKING						
The crystal valve is intended to operate as a detector in wavemeters and other similar applications below 1000 Mc/s. or, for less accurate measurements, between 6000 Mc/s. and 1000 Mc/s.	Crystal Valves A yellow and a blue spot or CV. 241. Envelopes CV241, 3 in No. BCX Crystal Valves Type CV. 241 in No. Packing To be tropical Proof. See K. 1005						
OTTO 1 4 /1 /2							

CV 241

K1,002			Limits		No.	
	para. Test ref.	Test	Min.	Max.	Tested	Note
а.	6.2	Back to forward resistance ratio		•	100%	A
ъ	6.3	Forward resistance (Ω)	(25)	250	100%	A
c	6.4.1	Resistance to Voltage Breakdown V = 1.4V, T = 5 mins.			100%	
đ	6.4.3	Test 'a' and 'b' repeated.	See tests 'a' and 'b' above		100%	
8	6.5	Predicted Noise Factor (db.SPY). At some point in the frequency range 2700 - 3360 Mc/s (11-9cms).	14	16	100%	
f	6.5.2	Rectified Current (MA) Test Frequency = 100 Mc/s.	170	-	100%	

NOTES

265 Ω

- 1: This figure applies only to the factory test. Subsequently the back to forward resistance ratio may fall and the forward resistance rise, when the 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.)
- 2: Tests (a), (b), (e) and (f) are repeatable.
 Test (c) is non-repeatable.