VALVE ELECTRONIC CV2285

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

Specification AD/CV2285 Issue 1.	SECURITY		
Dated: 22. 10. 53.	Specification	<u>Valve</u>	
To be read in conjunction with K1001.	Unclassified	Unclassified	

TYPE OF VALVE: Gas filled cell for S-Band Polarisation-twist TR Systems. CONSTRUCTION: Cylindrical Glass Cell. PROTOTYPE: VX3146.	MARKING K1001/4 and Note "D".	
RATING See "Tests".	DIMENSIONS Now F See Drawing Page 4.	Anul-2

NOTES

- A. The envelope shall be constructed from W1 Glass.
- B. Solid Filling. The narrow tube of the cell shall be filled as completely as possible with Brazilian Rock Crystal quartz chips capable of passing a sieve with 1.65 mm mesh and of being retained by one with 1.2 mm mesh.
- C. The cell shall also contain a Krypton gas filling at $5 \text{ mm} \pm \frac{1}{2} \text{ mm}$ mercury pressure.
- D. No marking is to be applied to the narrow parts of the cell.
- E. Packaging. The cells shall be packaged in an approved type of carton containing a set of 20 cells. To know (later 1994)
- F. Each all shall be checked in the concentricity gauge , shown on page 4. Amilts

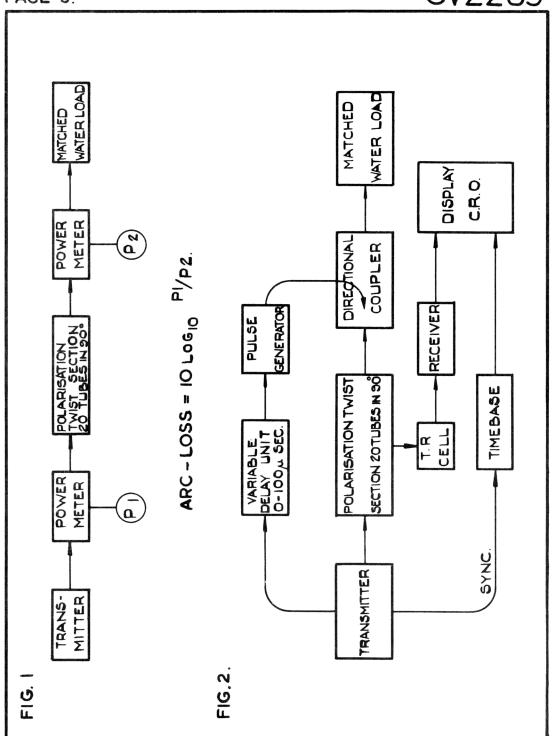
TESTS

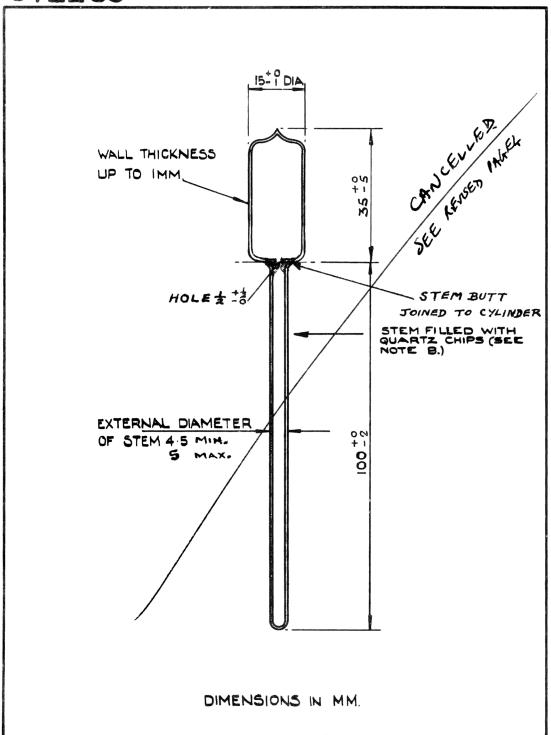
To be performed in addition to those applicable in K1001.

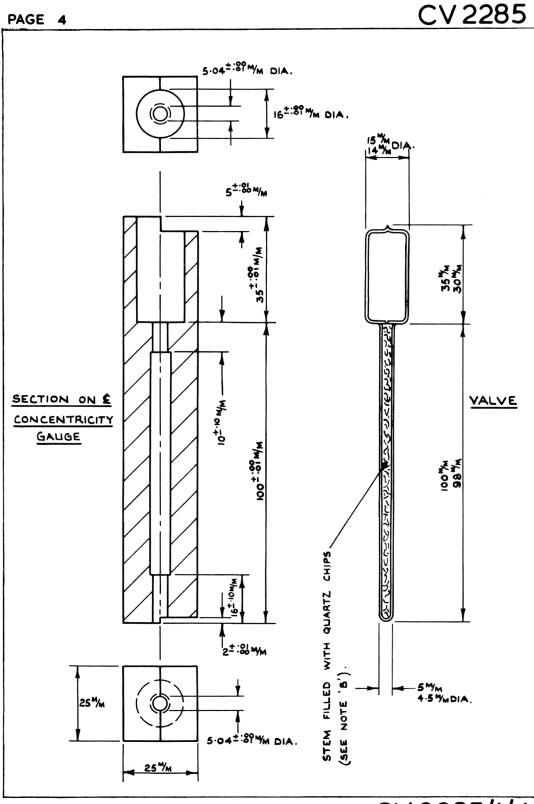
	Test Conditions	Test	Limi Min.	ts Max.	No. Tested	Notes
2	Increase RF input to twist- section until glow-discharge appears in tubes.	Minimum Arcing Power (kW peak)	-	10	10% or 20	1 3
Ъ	Increase RF input until cells spark in waveguide. PRF = 500 p.p.s. Pulse-duration = 2 usecs.	Power-handling capacity (MW peak)	2•5	•	10% or 20	1 3
С	Measure Arc-loss at input of 2 MW peak (20 tubes).	Arc-loss (db)	-	0.5	10% or 20	1 3
đ		Deionisation (recovery) time (usecs)	-	30	10% or 20	2

NOTES

- 1. Using equipment as shown in Fig. 1.
- 2. Using equipment as shown in Fig. 2.
- 3. If any of the 20 fail, all tubes are to be tested.







CV 2285/1/4

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION AD/CV.2285, ISSUE 1, DATED 22.10.53

AMENDMENT NO. 1

Page 1. Note E

Delete entirely the existing note and substitute Packaging - To K1005 (latest issue).

T.V.C. June, 1964

for A.S.W.E.



ELECTRONIC VALVE SPECIFICATIONS.

SPECIFICATION AD/CV2285, ISSUE 1, DATED 22.10.53

AMENDMENT No. 2.

- 1. Page 1.
 - (i) Dimensions: Add "Note F"
 - (ii) Notes. Insert new Note F:-F. Each cell shall be checked in the concentricity gauge, shown on page 4.
- 2. Page 4 Cancel, but do not destroy, existing Page 4 and substitute new Page 4, attached hereto.

February, 1965. T.V.C. for A.S.W.E.

NM.310272.

JAR 296/65