VALVE ELECTRONIC **CV2341**

ADMIRALTY SIGNAL AND RADAR ESTABLISHMENT

Specification AD/CV2341 Issue No. 1 Dated : 21.1.55 To be read in conjunction with K1001	SECURITY Specification: Unclassified Valve: Unclassified

TYPE OF VALVE:- Coaxial Noise Diode for frequencies up to 1000 Mc/s. **CATHODE:-** Directly heated tungsten. **ENVELOPE:-** Metal and glass. **PROTOTYPE:-** VX3138	**MARKING** See K1001/4

RATING		Note	DIMENSIONS
Max. Filament Voltage	(V) 5.0	A, B	See drawing, Page 3
Max. Filament Current	(A) 4.0	A, B	
Max. Saturated Anode Current	(mA) 200	A, C	
Anode Voltage for saturation at all Anode Currents	(V) 200	C, D	
Max. Anode Voltage	(V) 400	A	
Max. Anode Dissipation without Forced Air Cooling	(W) 10	A	
Max. Anode Dissipation with Forced Air Cooling	(W) 40	A, E	
Characteristic Impedance (approx.)	(Ω) 70		

NOTES

A. Absolute Maximum Value.

B. Emission (of the order of a milliampere) may be expected to commence at 2.0 Volts and 2.4 Amps.

C. The value of the saturated Anode Current is regulated by variation of the filament voltage.

D. The estimated life at 200 mA Anode Current is 30 hours. At 20 mA Anode Current it is 1000 hours.

E. For anode dissipations over 10W an air flow of at least 2.5 cubic feet per minute between the fins is required.

TESTS

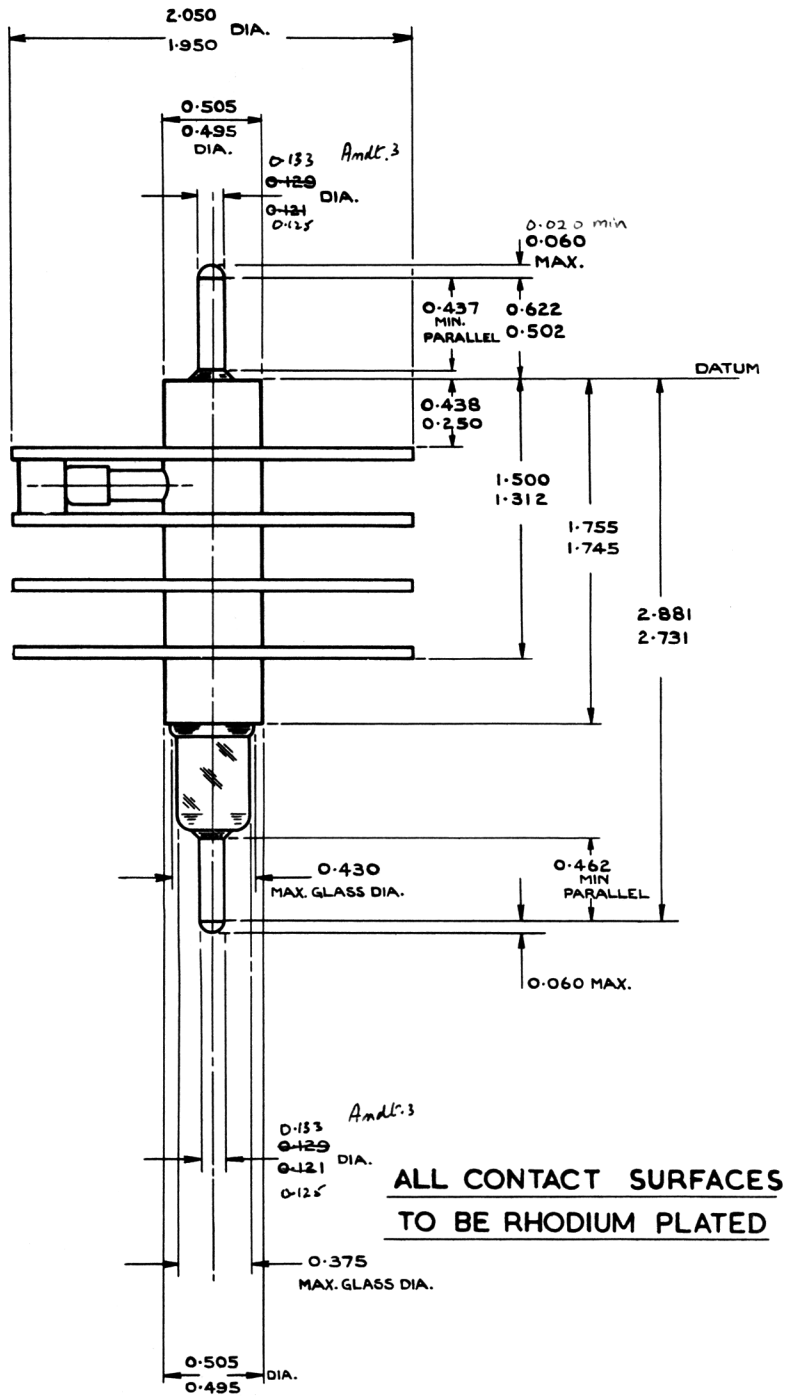
To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. Tested
	Vf (V)	Va (V)	Ia (mA)		Min.	Max.	
a	3.0	-	-	If (A)	2.6	3.2	100%
b	-	200	15	If (A)	2.85	3.15	100%
c	-	200	200	If (A)	3.6	4.0	100%

NOTE

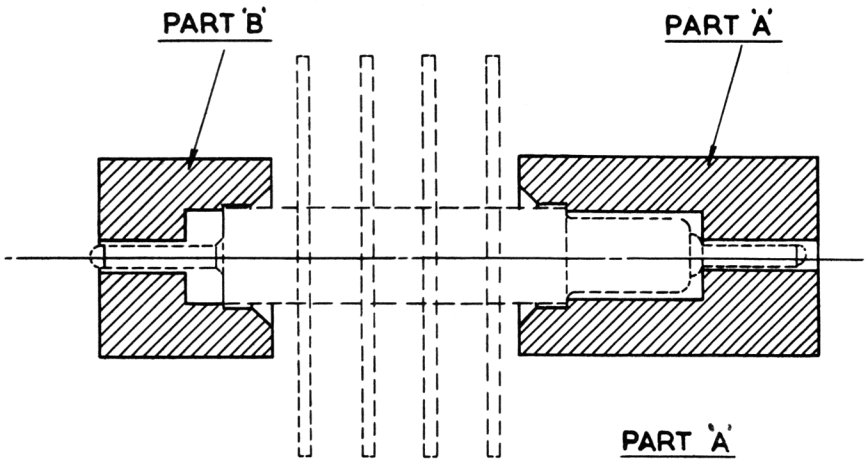
The insertion of the valve in a correctly terminated 70 Ω coaxial line shall not result in a V.S.W.R. less than 0.9 at 280 Mc/s. This is a Type Approval Test.

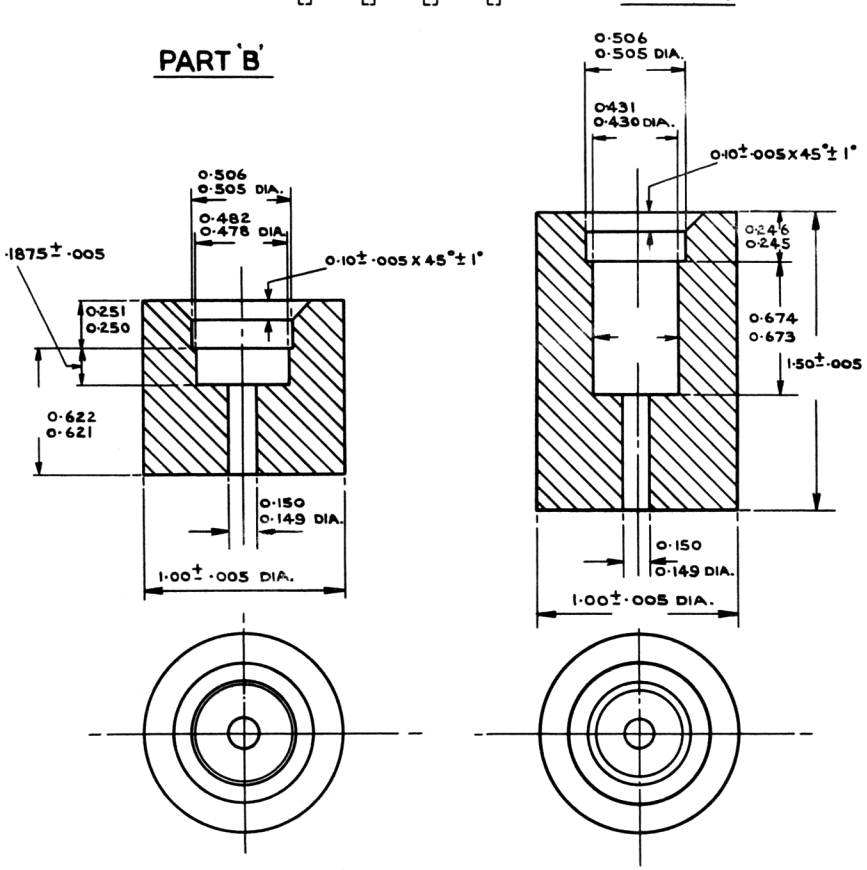
CV2341



ALL DIMENSIONS ARE IN INCHES.

CONCENTRICITY GAUGES.

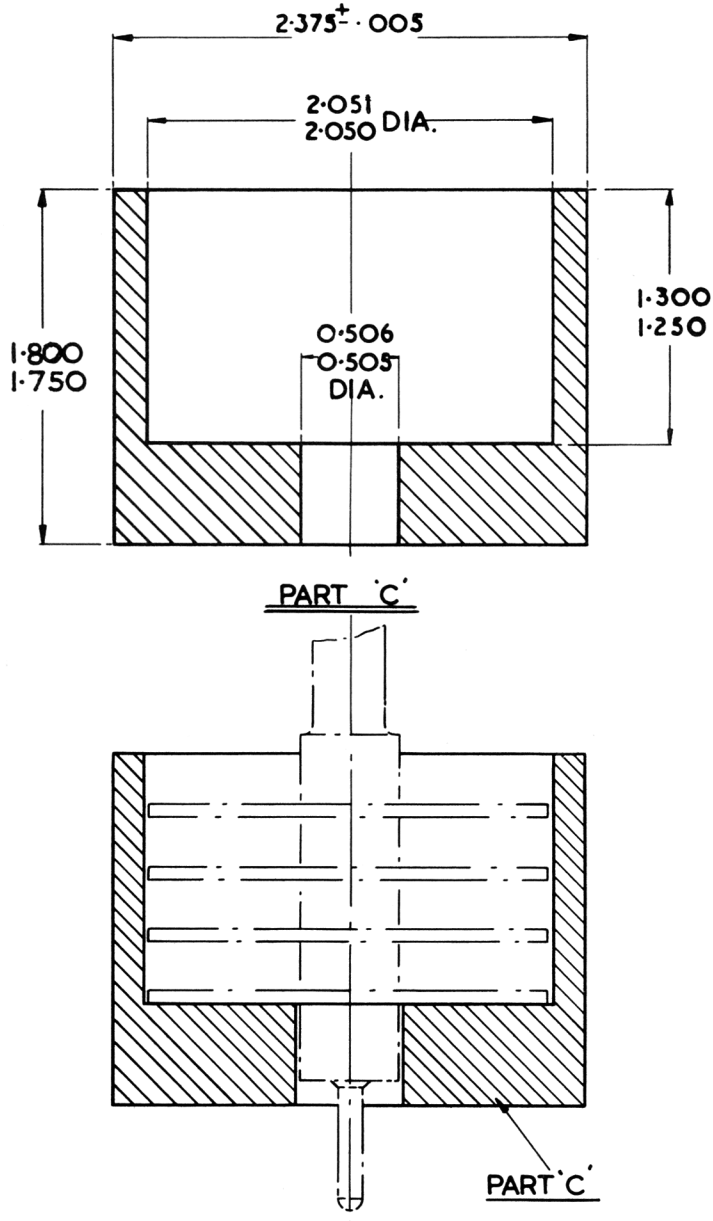




ALL DIMENSIONS ARE IN INCHES

SHOWING METHOD OF USING GAUGES.

CV2341



SHOWING METHOD
OF USING GAUGE.

ALL DIMENSIONS ARE IN INCHES

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION AD/CV2341

ISSUE NO. 1 DATED 21.1.55

AMENDMENT NO. 1

Page 3. Drawing

presumably 0·020"

Add min. dia. of 0.20" to radius at end of pin
i.e. min. 0.020" max. 0.060".

February, 1960 Admiralty Surface Weapons Establishment

N.16339/D

AAS
26/4/60

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION AD/CV.2341

ISSUE NO.1 DATED 21.1.55

AMENDMENT NO.2

(a) Amendment No. 1 is hereby cancelled. (!)

(b) Page 3 Drawing

Amend depth of chamfer at end of pin
from 0.060 Max to 0.020 Min
0.060 Max

Admiralty Surface Weapons Establishment
April 1960.

N.16771/D.

8/60

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION AD/CV 2341 ISSUE NO. 1 DATED 21.1.55.

AMENDMENT NO. 3.

Page 3 Outline Drawing

Amend the pin diameters (both top and bottom) to read 0.125" min. and 0.133" max. in place of 0.121" min. and 0.129" max. respectively.

T.V.C. for
A.S.W.E.

December, 1962.

(152445)

5-3/63