VALVE ELECTRONIC

ADMIRALTY SIGNAL & RADAR ESTABLISHMENT

CV58

Specification AD/CV58
Issue 7 dated 10/10/58

To be read in conjunction with K1001 ignoring clauses:- 5.2, 5.8.

SECURITY

Specification	Valve
Unclassified	Unclassified

→ Indicates a change

TYPE OF VALVE:- Diode of "axial" type for use down to 9 cms.

CATHODE:- Indirectly heated.

ENVELOPE:- Glass - clear

PROTOTYPE:- E1273

MARKING
See K1001/4

BASE

Concentric fitting, consisting of cathode tube and filament pin, for use with co-axial line. Anode connection to pin at other end of valve.
See page 3.

RATING		Notes
Heater Voltage (V)	6.3	A
Heater Current (A)	0.36	
Minimum Conductance (mA/V)	1.4	B

DIMENSIONS

See Page 3.

NOTES

A. Within limits + 0.2, - 0.4 V. The anode-cathode clearance varies with cathode temperature, and these limits should not be exceeded in operation or some fall in performance as a mixer will result.

B. At Ia = 1 mA

Z.17786.R.

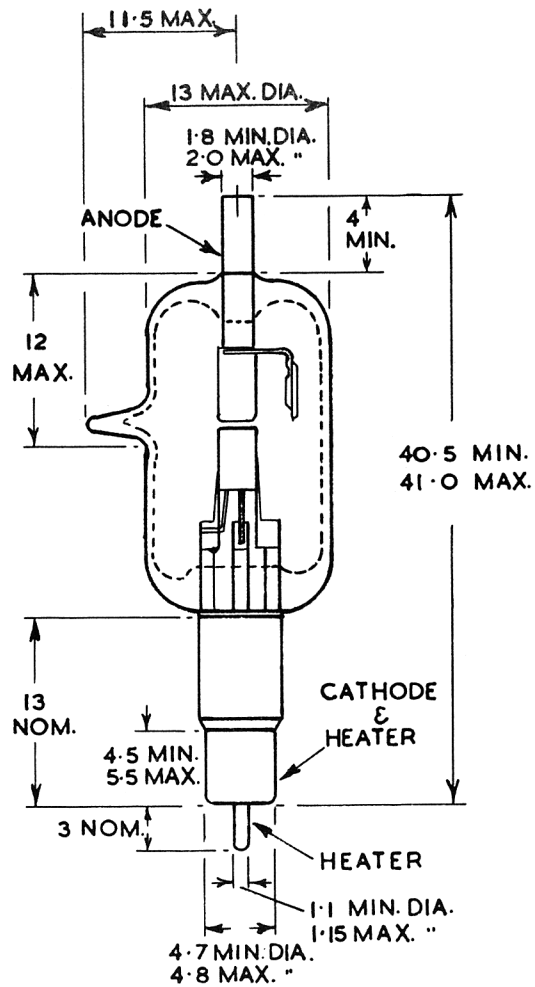
TESTS

To be performed in addition to those applicable in K1001

	Test	Test Conditions	AQL	Insp. Level	Symbol	Limits		Units	
						Min.	Max.		
a	Heater Current	V_h = 6.3V		100%	I_h	0.335	0.385	A	
b	Conductance	V_h = 6.3V I_a = 1.0 mA Note 1		100%	gm	1.4	-	mA/V	
c	Capacitance	V_h = 6.3V Note 2	6.5	IB	C_{a-k+h}	-	2.5	µµFd	←
d	Leakage Conductance	V_h = 6.3V	6.5	IB	-	-	4	µmhos	←

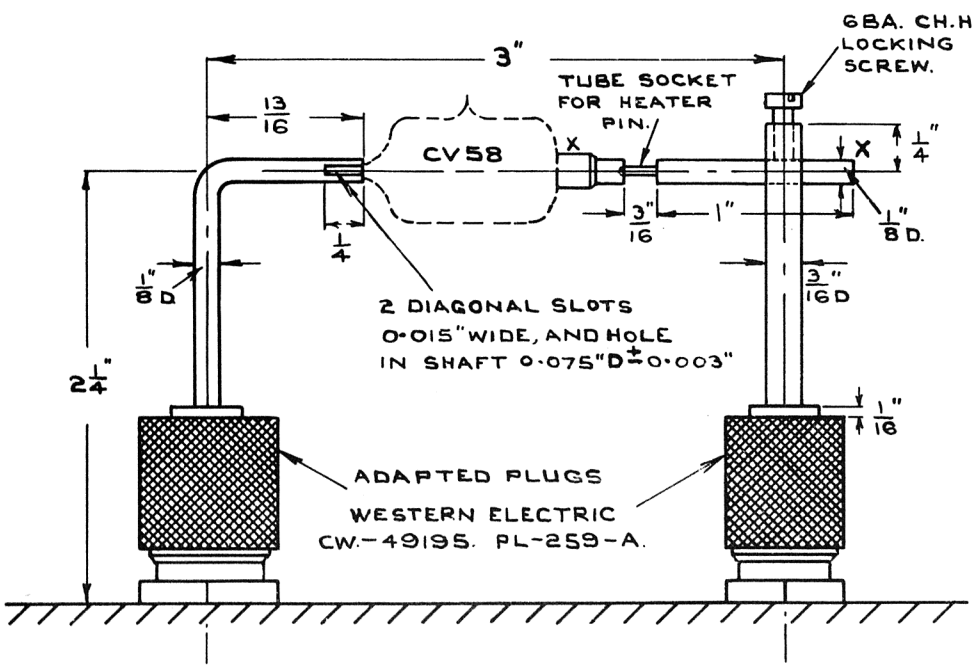
NOTES

1. To be measured with V_a (D.C.) adjusted for 1.0 mA, and then varied ± 0.1V.
2. The Heater Voltage supply to be D.C. Capacitance and Leakage Conductance are to be measured on a standard R.F. Capacitance Bridge, using a jig such as is shown on page 4.
3. The above tests are designed to enusre satisfactory operation at a wave-length of 10 cms. ←



ALL DIMENSIONS IN MILLIMETRES

MOUNT FOR CV58 FOR PURPOSE OF CAPACITANCE AND LEAKAGE CONDUCTANCE MEASUREMENTS. MATERIAL – BRASS.



CHASSIS OF CAPACITANCE BRIDGE.

NOTE. D.C. HEATER VOLTAGE TO BE APPLIED BY CLIPPING FLEXIBLE LEADS ON TO POINTS X.X.