

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOA/CV2479, ISSUE 1B, DATED 19th July, 1964.

AMENDMENT NO. 1

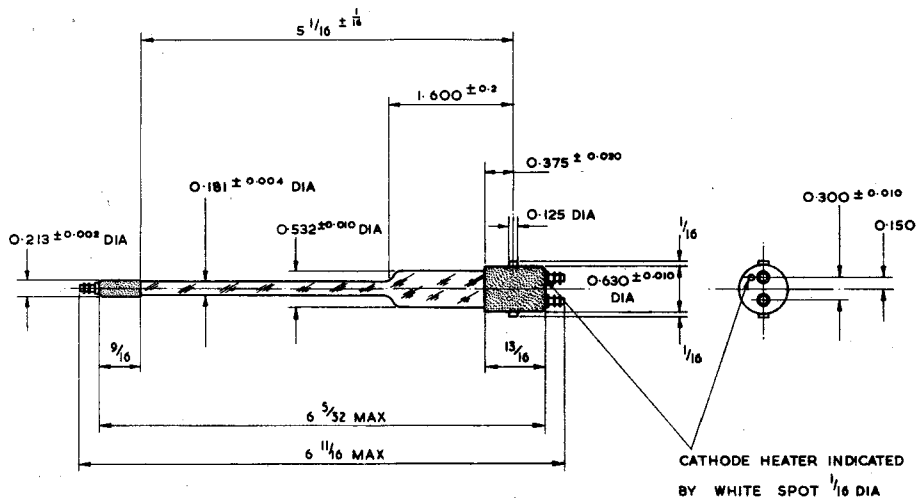
Page 4 Cancel (but do not remove) existing Page 4 and substitute new Page 4, dated 1st October, 1964, attached hereto.

T.V.C. for R.R.E.

November, 1964.

NM.190472

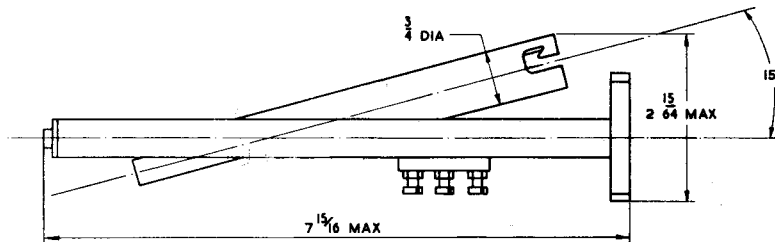
FIG. 2



NOISE DIODE OUTLINE DRAWING
(THIRD ANGLE PROJECTION)

DIMENSIONS IN INCHES

FIG. 3



OUTLINE DRAWING OF APPROVED MOUNT

DIMENSIONS IN INCHES

Specification MOA/CV2479 Issue 1B Dated 19th July 1964 To be used in conjunction with BS448, BS1409 and K1001, excluding clauses 5.2, 5.3, 5.5, 5.7, 5.9	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

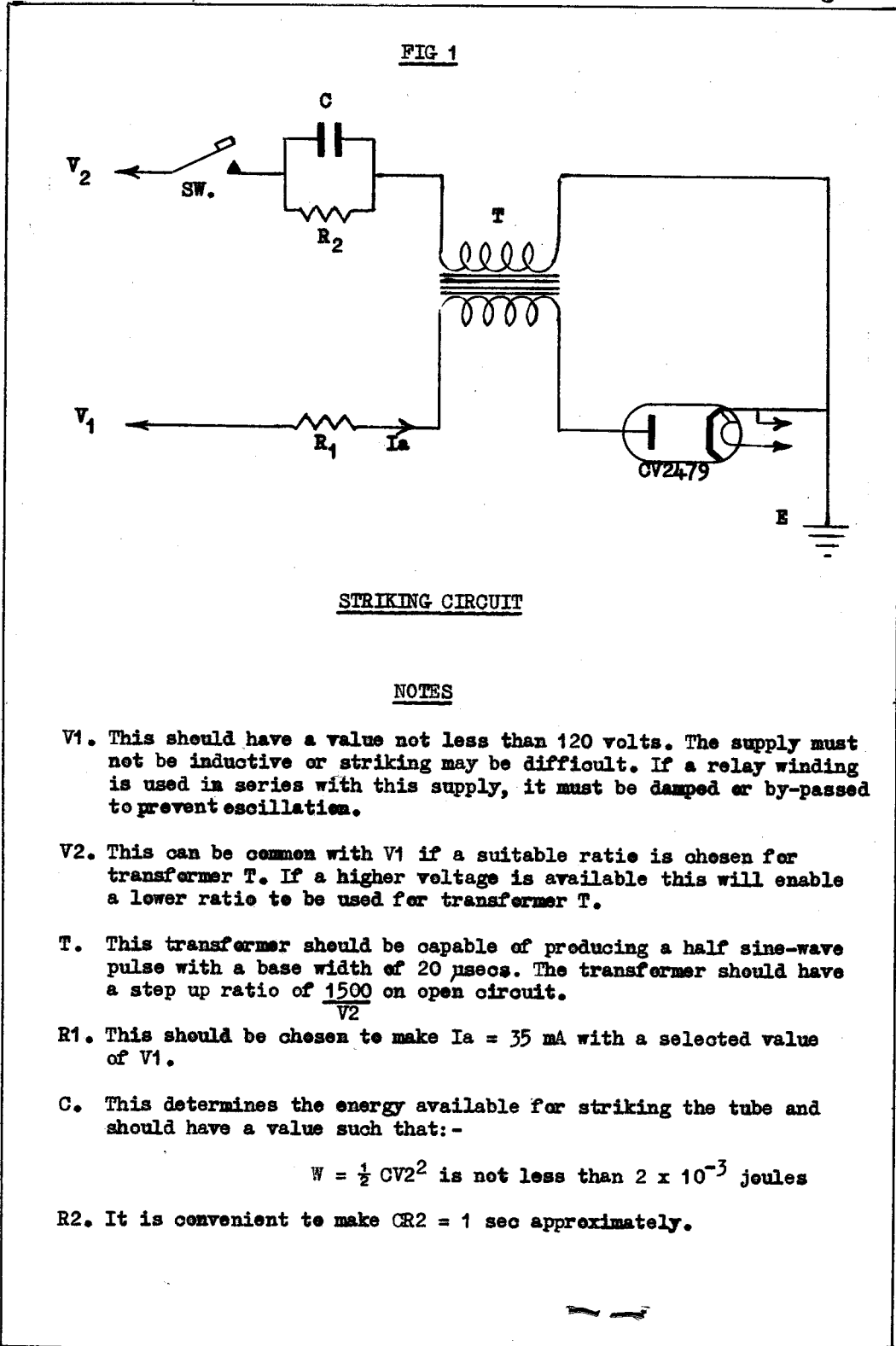
← Indicates change

<u>TYPE OF VALVE:</u> Noise Tube, Gas Filled, Low Current <u>CATHODE:</u> Indirectly heated <u>ENVELOPE:</u> Glass <u>PROTOTYPE:</u> VX1036	<u>MARKING</u> See K1001/4 Cathode connection indicated by white spot on base
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<u>ABSOLUTE NON-SIMULTANEOUS RATINGS</u> (Not for inspection purposes)	<u>BASE AND CONNECTIONS</u> See Drawing Page 4
	Note
Heater Voltage (V) 6.3 Heater Current (A) 1.0 Max. Striking Voltage (in mount) (V) 1,150 C Normal Voltage Drop across tube (V) 50 A Preferred Operating Current (mA) 35 Min. Operating Current (mA) 25 Max. Operating Current (mA) 50 Min. Series Resistance (Ω) 1,500 Nominal noise power available (dB) 15.25 B Nominal noise power output charge with current (dB/mA) 0.03 Useful frequency range (Mc/s) 9,000 to 18,000	

NOTES

- A. The value quoted is that which is obtained with $I_a = 35\text{mA}$. In order to ensure adequate performance of the tube the circuit and ^anotes given on page 2 may be used. It is essential that the energy available for striking the tube exceeds the minimum value of 2×10^{-3} joules.
- B. Given as a reference to thermal noise at 17°C . The figure quoted is that which is obtained with the tube fitted in a mount conforming to the dimensions given on Fig. 3, and which is terminated with a matched load.
- C. In order to avoid the presence of High d.c. voltages a striking circuit as given in Fig. 1 may be used.



TESTS

To be performed in addition to those applicable in K1001

Test shall be performed in the specification order unless otherwise agreed with the inspecting authority.

Test condition - unless otherwise specified Vf = 6.3V Ia = 35 mA								
K1001 Ref.	Test	Test Conditions	AQL %	Insp. level	Sym- bol	Limits		Units
						Min.	Max.	
	Filament Current	Note 1		100%	If	0.9	1.1	A
	v.s.w.r. (1)	F = 9375 ± 25 Mc/s Note 2		100%		—	1.06	Ratio
	v.s.w.r. (2)	F = Over the range 9025 to 9726 Mc/s Note 2		10%		—	1.25	Ratio
	Noise Output	Note 3		10%		15.0	15.5	dB

NOTES

1. The heater voltage should be applied 30 seconds before performing the test.
2. The diode is inserted in the approved 15° E-plane mount in No. WG16 waveguide which is terminated in a matched load, and the mount is screw tuned with diode struck to give a v.s.w.r. at 9375 Mc/s of less than 1.03.
3. The diode is inserted in the approved 15° E-plane mount in No. WG16 waveguide which is terminated in a matched load.

