VALVE ELECTRONIC

CV2259

GENERAL POST OFFICE: E-IN-C (a)

Specification: No. GPO/CV 2259/Issue 2 Dated: July, 1955 → To be read in conjunction with B.S.1409 and K 1001 ignoring Clause 5.2	SECURITY Specification: Unclassified Valve: Unclassified ←

→ indicates a change

TYPE OF VALVE: Sub-miniature output pentode CATHODE: Directly heated ENVELOPE: Unmetallised glass PROTOTYPE · DL 68	MARKING CV Number, Factory and date code only required

RATING			Note	BASE
Filament voltage	(V)	1.25		B5A (see drawing on page 3)
Nominal filament current	(mA)	25.0		
Max. anode voltage	(V)	45.0		CONNEXIONS See drawing on page 3
Max. screen voltage	(V)	45.0		
Mutual conductance	(mA/V)	0.43	A	DIMENSIONS See drawing on page 3
Max. Cathode Current	(mA)	2.3		

NOTES

A. Measured with Va = Vg2 = 22.5 and Ia = 0.6 mA

A sharp bend must not be made in any valve lead closer than 1.5 mm to the glass seal and soldered joints in the leads must not be made closer than 5.0 mm to the seal.

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Tests

To be performed in addition to those applicable in K 1001

Test Conditions					Limits		No.	
	Vf	Va(b)	f(c/s)		Min.	Max.	Tested	Note
a	1.25	-	-	If (mA)	-	27.50	100%	
b	1.5	45	-	Ik (mA)	-	2.8	100%	1.2 ←
c	1.5	45	1000	Output measured with an input 1.78V r.m.s. (V)	11	-	100%	1.2 ←
d	1.1	30	1000	Output measured with an 1.78V r.m.s. (V)	7	-	S	1.2 ←
e	1.1	45	1000	Output measured with an input of 1.78V r.m.s. (V)	8	-	S	1.2 ←

NOTES

(1) The equipment used for testing is to be approved by G.P.O.

(2) Measured in Test circuits shown on page 4.

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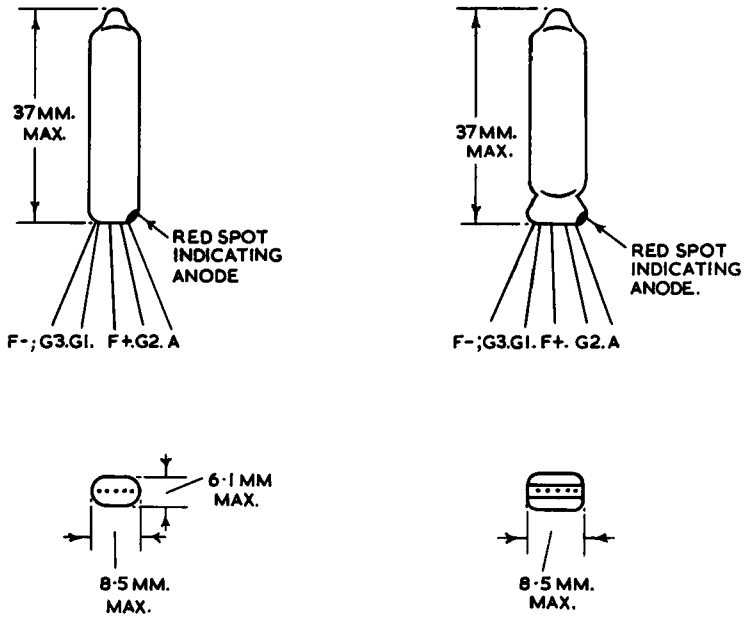
PIN CONNEXIONS & OUTLINE DRAWING



SPACING OF LEADS 1·3 MM.

THE LEADS SHALL BE FLEXIBLE TINNED, COPPER CLAD NICKEL IRON WIRE. 0·34 – 0·48 MM. DIAMETER AND AT LEAST 32 MM. IN LENGTH.

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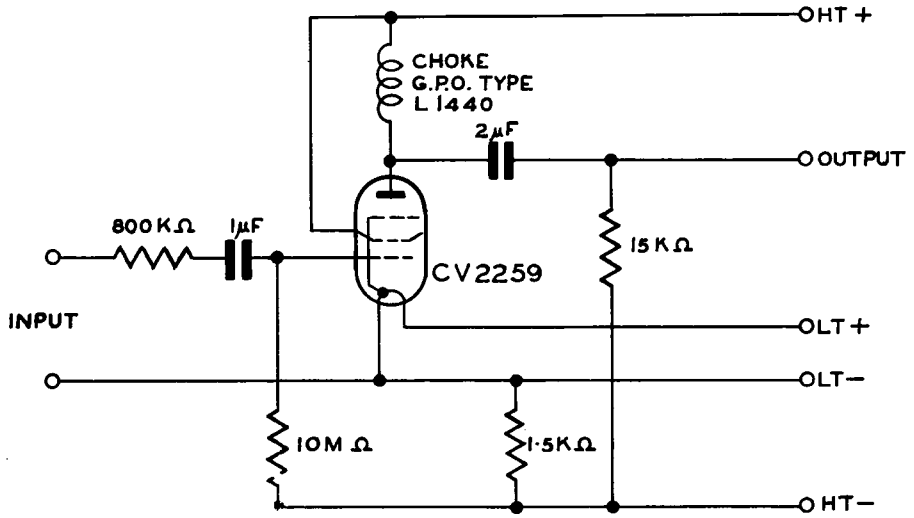
TEST CIRCUIT



NOTES 1. OUTPUT IS MEASURED BETWEEN OUTPUT TERMINAL & LT−

2 CHOKE G.P.O. TYPE L 1440 MAY BE OBTAINED ON APPLICATION TO G.P.O.

3. HT SOURCE IMPEDANCE TO BE LESS THAN 100 OHMS AT THE TEST FREQUENCY.

4. CAPACITANCE BETWEEN HT− & LT− TO BE NOT GREATER THAN 10,000 pF.