ROGERS

electron tube reference data

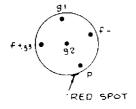


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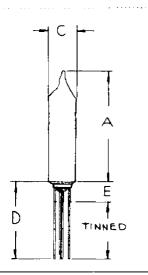
ELECTRICAL DATA

Subminiature
Electrometer Pentode
(Triode Connected)

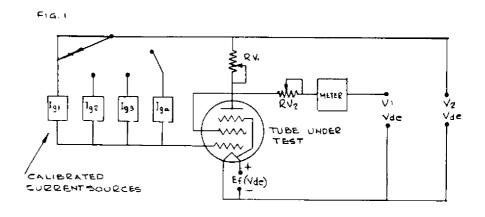
for Logarithmic Applications



Dimensions							
Dim.	Min.	Max. Units					
A		1.750	Inches				
C	.366	.400	"				
D	1.25		н				
E		.25	11				



Test	Conditions	Symbol	Limits		
			Min.	Max.	Units
Filament Current	Ef = 1.25 Vdc	If	7.2	9.2	mA
	EF = 1.25 Vdc $V_1 = 6.25 \text{ Vdc}$ $V_2 = 12.5 \text{ Vdc}$	-	-	-	-
	Notes 1, 2, 3				
Test (2)	Ef = 1.35 Vdc V_1 = 6.75 Vdc V_2 = 13.5 Vdc Notes 1, 2, 4	-	-	-	-
Test (3)	Ef = 1.15 Vdc $V_1 = 5.75$ Vdc $V_2 = 11.5$ Vdc Notes 1, 2, 5	-	-	-	-



ROGERS electronic tubes & components

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NOTES

1. This test to be carried out in the test circuit in Fig. 1

 RV_1 = Variable from 15,750 ohms to 90,000 ohms.

RV2 = Variable from 0 - 13,500 ohms.

Meter full scale = 100 μ A maximum meter resistance = 3,000 ohms \neq 2%.

$$I_{g1} = 10^{-12} \text{ amps.}$$
 $I_{g3} = 10^{-9} \text{ amps.}$ $I_{g2} = 3.3 \times 10^{-11} \text{ amps.}$ $I_{g4} = 5 \times 10^{-9} \text{ amps.}$

- 2. The test circuit is to be enclosed in an electrostatically shielded light tight box.
- 3. The following sequence of measurements shall be made:
 - a. With current source IGI in circuit adjust RV1 for meter reading = 0.
 - b. With current source IG3 in circuit adjust RV2 for meter reading = 40 µA.
 - c. With current source IG2 in circuit read value of meter current. Value shall be within the limits 18.50 to $21.25~\mu\text{A}$.
 - d. With current source IG4 in circuit read value of meter current. Value shall be within the limits 49.00 to 52.00 µa.

Any tube which cannot meet the requirements of (a), (b), (c) and (d) above shall be considered defective.

- 4. The following sequence of measurements shall be made:
 - a. With current source IGl in circuit adjust RVL for meter reading = 0.
 - b. With current source IG3 in circuit adjust RV2 for meter reading = 39 µA.

Any tube which cannot meet the requirements of (a) and (b) above shall be considered defective.

- 5. The following sequence of measurements shall be made:
 - a. With current source IGl in circuit adjust RVl for meter reading = 0.
 - b. With current source IG3 in circuit adjust RV2 for meter reading = 41 µA.

Any tube which cannot meet the requirements of (a) and (b) above shall be considered defective.