

CV2414

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| Specification MOS(A)CV2414 Issue 1 Dated 25.2.57 To be read in conjunction with K1001 | <u>SECURITY</u> | |
| | <u>Specification</u> UNCLASSIFIED | <u>Valve</u> UNCLASSIFIED |

| | | | | | | | | | | | |
|---|--|----------|--|------------------------|----|----------|--|-----|----------------------------|---|--|
| TYPE OF VALVE - Filament Bolometer ENVELOPE - Glass with sleeve contacts PROTOTYPE - XC305/1 | <u>MARKING</u> See K1001/4 and Note C | | | | | | | | | | |
| <u>RATING</u> | <u>BASE</u> See Drawing on Page 4 | | | | | | | | | | |
| <table border="1" style="width: 100%;"> <tr> <td style="width: 60%;"></td> <td style="width: 10%; text-align: center;">Note</td> <td style="width: 30%;"></td> </tr> <tr> <td>Nominal Resistance (Ω)</td> <td style="text-align: center;">50</td> <td rowspan="3" style="text-align: center;">A A,B</td> </tr> <tr> <td>Nominal Wattage at 50Ω Resistance (mW)</td> <td style="text-align: center;">2.0</td> </tr> <tr> <td>Minimum Sensitivity (Ω/mW)</td> <td style="text-align: center;">7</td> </tr> </table> | | Note | | Nominal Resistance (Ω) | 50 | A A,B | Nominal Wattage at 50Ω Resistance (mW) | 2.0 | Minimum Sensitivity (Ω/mW) | 7 | <u>CONNECTIONS AND DIMENSIONS</u> See Drawing on Page 4 |
| | Note | | | | | | | | | | |
| Nominal Resistance (Ω) | 50 | A A,B | | | | | | | | | |
| Nominal Wattage at 50Ω Resistance (mW) | 2.0 | | | | | | | | | | |
| Minimum Sensitivity (Ω/mW) | 7 | | | | | | | | | | |
| | <u>MOUNTING POSITION</u> Any | | | | | | | | | | |

NOTES

A. Normal life is obtained, when the Bolometer is run at 50 ohms. The life at maximum overload is relatively short.

B. Overload not to exceed 2.0 mW or 100% of the wattage at 50 ohms, whichever is the smaller.

C. The valve shall be marked with the C.V. title, factory identification code, date code, and broad arrow only.

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TESTS

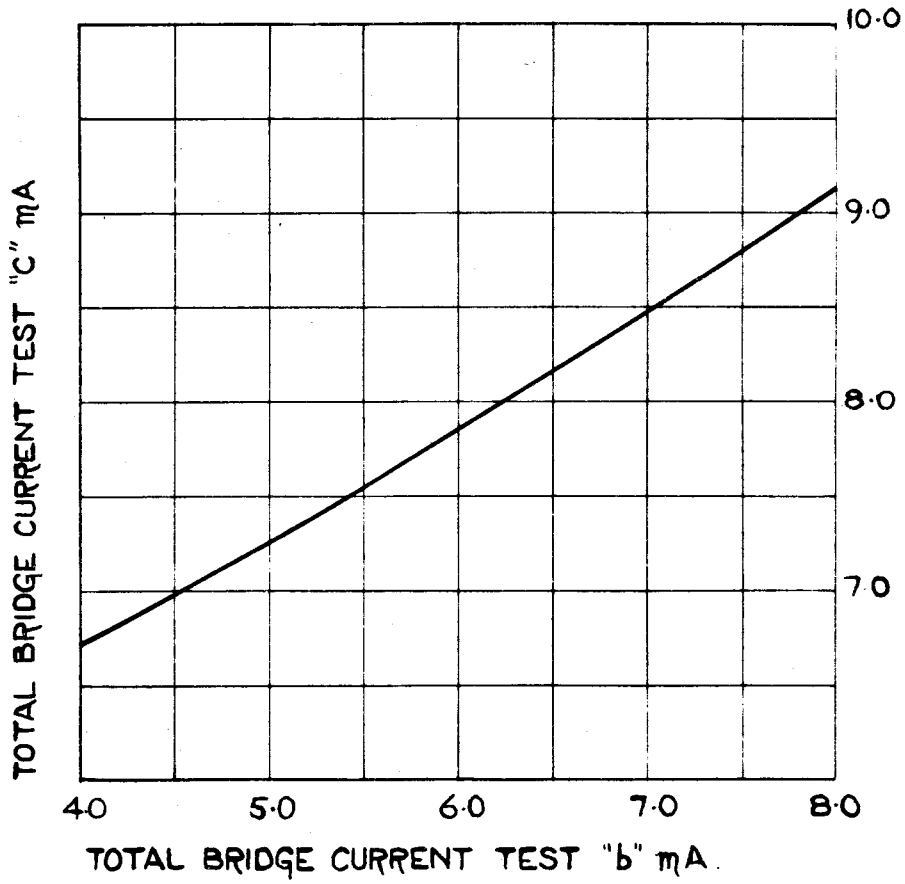
To be performed in addition to those applicable in K1001

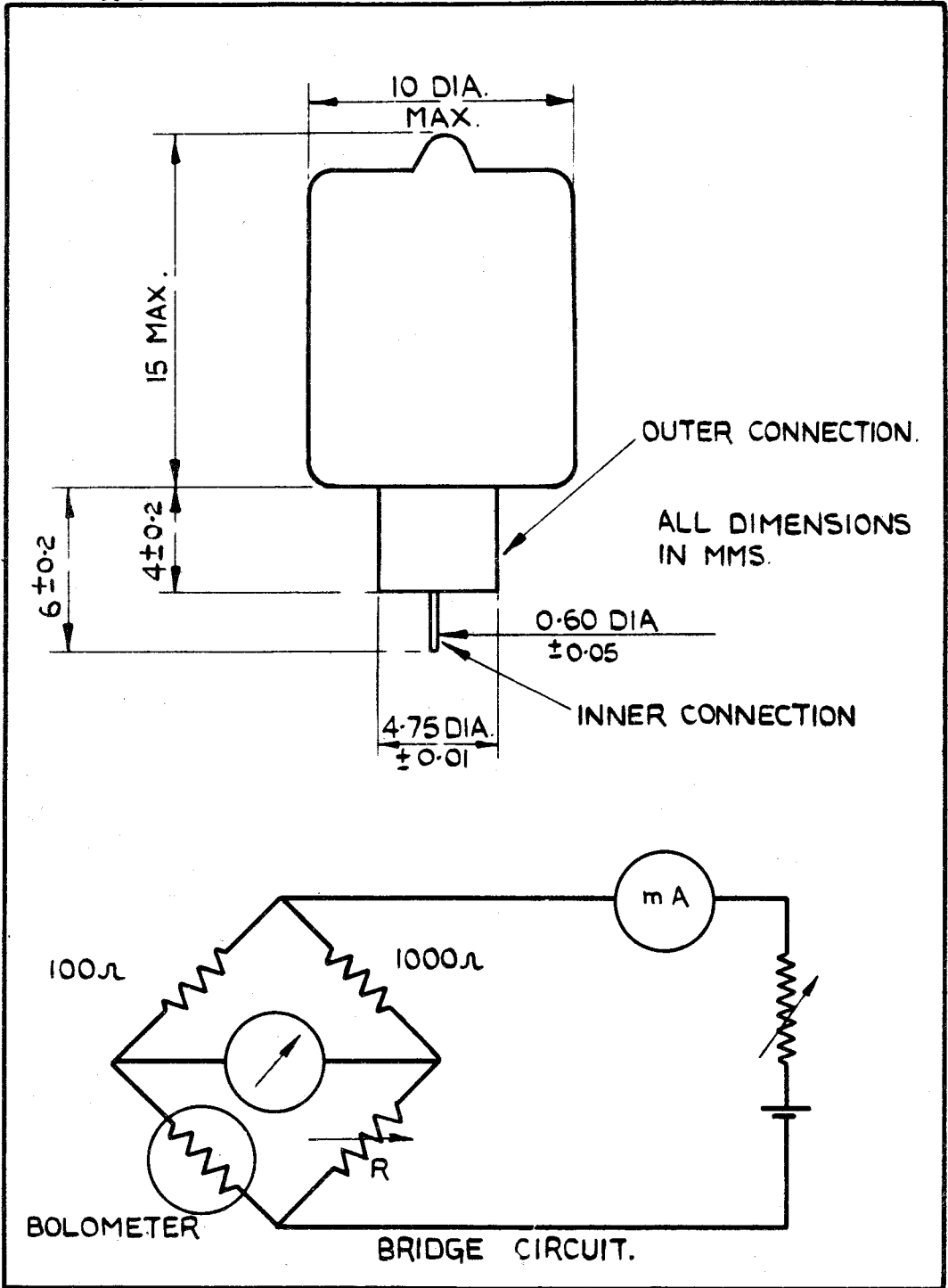
| | Test Conditions | Test | Limits | | No. Tested | Note |
|---|---|------------------------------|---------------|---------------------|------------|------|
| | | | Min. | Max. | | |
| a | Balance Bridge for Bolometer Resistance 50 ohms | Total Bridge Current mA D.C. | 6.0 | 7.80 | 100% | 1 |
| b | Balance Bridge for Bolometer Resistance 45 ohms | Total Bridge Current mA D.C. | observe value | | 100% | 1,2 |
| c | Balance Bridge for Bolometer Resistance 55 ohms | Total Bridge Current mA D.C. | | See graph on Page 3 | 100% | 1,2 |

NOTES

1. Test in Bridge circuit shown on Page 4.
2. The total Bridge current observed in Test "c" shall not exceed the values indicated on the graph on Page 3 corresponding to the values of total Bridge current, observed in Test "b".

RELATIVE BRIDGE CURRENTS FOR TESTS "b" AND "c"
FOR A SENSITIVITY OF $7 \Omega/mW$.





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