VALVE ELECTRONIC

MINISTRY OF SUPPLY - D.L.R.D.(A)/R.A.E.

CV2414

Specification MOS(A)CV2414 Issue 1 Dated 25.2.57 To be read in conjunction with K1001	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

TYPE OF VALVE - Filament Bolometer

ENVELOPE - Glass with sleeve contacts

PROTOTYPE - XC305/1

MARKING

See K1001/4 and Note C

RATING

			Note
Nominal Resistance	(Ω)	50	
Nominal Wattage at 50Ω Resistance	(mW)	2.0	A
Maximum Overload		-	A,B
Minimum Sensitivity	(Ω/mW)	7	

BASE

See Drawing on Page 4

CONNECTIONS AND DIMENSIONS

See Drawing on Page 4

MOUNTING POSITION

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.

TESTS

To be performed in addition to those applicable in K1001

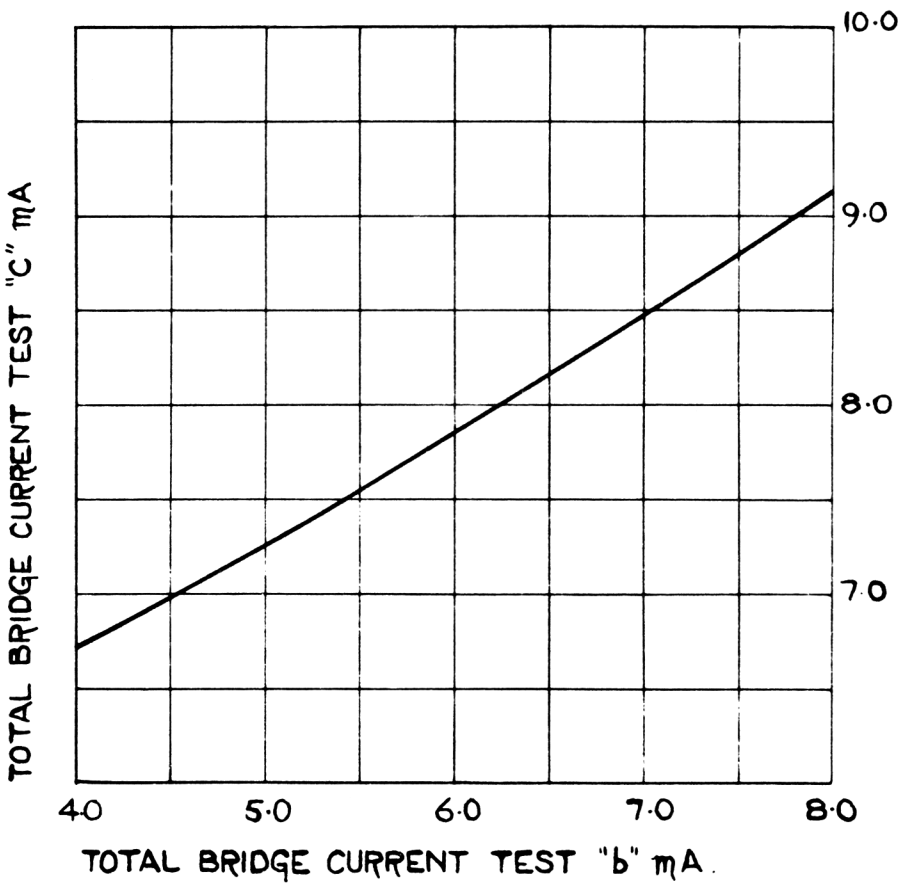
Test Conditions		Test	Limits		No. Tested	Note
			Min.	Max.		
a	Balance Bridge for Bolometer Resistance 50 ohms	Total Bridge Current mA D.C.	6.0	7.80	100%	1
b	Balance Bridge for Bolometer Resistance 45 ohms	Total Bridge Current mA D.C.	observe value		100%	1,2
c	Balance Bridge for Bolometer Resistance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

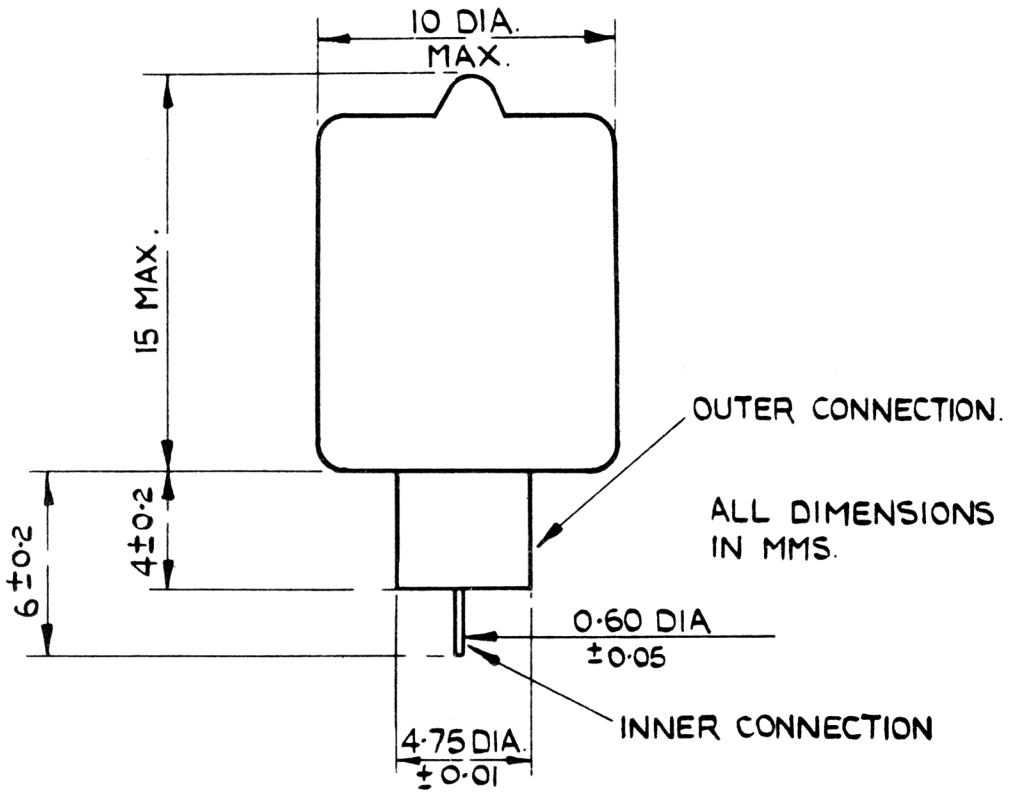
NOTES

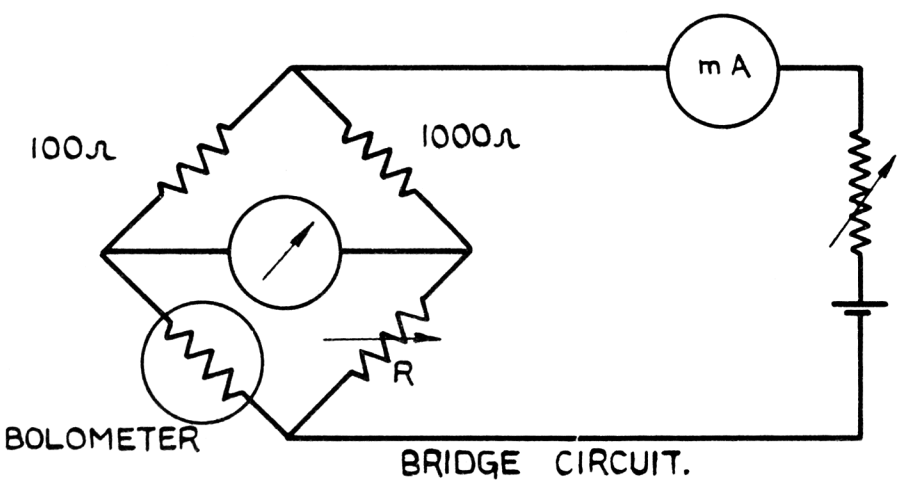
1. Test in Bridge circuit shown on Page 4.

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 Ω/mW.







BRIDGE CIRCUIT.