SPECIFICATION MOS(A)CV.408

ISSUE 4 DATED 18TH NOVEMBER, 1954
AMENDMENT No. 2

Page 1 DIMENSIONS: Delete figures and insert the following:-

		Min.	Max.
A	Seated height	-	47.5
C	Diameter	16	19
D	Overall length	-	54.5

Page 2 Clause g. Capacitances
Add "Valve shielded"

June, 1959. R.R.E.

N.70614

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS(A)/CV.408
ISSUE 4 DATED 18th NOVEMBER 1954

AMENDMENT NO.3

Page 1. After words "To be read in conjunction with K1001" add "except Clause 5.3".

Page 2. Add new test Clause after clause 'd' as follows:

e	Heater Cathode Insulation	Note 3	-	100%	I_{hk}	-	40	µA

Present clauses "e" to "g" to be renamed "f" to "h"

Add Note 3 as follows:

3. Vh = 6.3 v, Vhk = 90 min. applied via a limiting resistance not exceeding 1.5 M ohm.

January, 1960 R.R.E.

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS(A)/CV.408 ISSUE 4 DATED 18th NOVEMBER 1954.

AMENDMENT NO. 4

Page 2. Note 3 (inserted by Amendment No. 3.)

Following ... 1.5 Mohm. add This test shall be carried out with cathode positive to heater only.

T.V.C. for RRE

July, 1963

MINISTRY OF SUPPLY - DLRD(A)/RRE (South) VALVE ELECTRONIC **CV408**

Specification MOS(A)/CV408 Issue 4 Dated 18th November, 1954. To be read in conjunction with K1001.	SECURITY Specification: UNCLASSIFIED Valve: UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Low Noise RF Triode Amplifier
CATHODE - Indirectly-heated
ENVELOPE - Glass - Unmetallised
PROTOTYPE - VX3052

MARKING

See K1001/4

RATING

			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.49	
Max. Anode Voltage	(V)	250	
Max. Anode Dissipation	(W)	2.5	
Mutual Conductance	(mA/V)	9.0	
Equivalent Noise Resistance	(ohms)	550	
Input Resistance @ 45 Mc/s	(ohms)	40,000	

BASE

B7G

CONNECTIONS

Pin	Electrode
1	Grid
2	Cathode
3	Heater
4	Heater
5	No connection
6	Internally connected
7	Anode

DIMENSIONS

See BS.448 : 1953
B7G/2.1

Dimension (mm)	Min.	Max.
A Seated height	43	49
C Diameter	-	19
D Overall length	49	55

MOUNTING POSITION

Any

NOTE

A. Measured at: Va = 150V; Ia = 10mA.

To be performed in addition to those applicable in K1001

Test Conditions - unless otherwise specified

Vh (V)	Va (V)	Ia (mA)
6.3	150	10

	Test	Test Conditions	AQL %	Insp. Level	Sym-bol	Limits Min.	Limits Max.	Units
a	Heater Current		2.5	I	Ih	0.45	0.53	A
b	Negative Grid Voltage			100%	Vg	1.2	3.2	V
c	Mutual Conductance			100%	gm	7	10	mA/V
d	Reverse Grid Current			100%	Ig	-	1.5	uA
e	Amplification Factor		2.5	I	u	30	60	-
f	Noise Factor	Rk = 180 ± 5%; Frequency = 45 Mc/s; Note 2	2.5	II-	NF	-	2.2	db
g	Capacitances	See K1001/AIII	6.5	IB				
		No voltages			Cag	0.8	1.0	pF
		No voltages			C out	1.0	1.6	pF
		Rk = 180 ±5%			C in (hot)	2.6	3.9	pF

NOTES

1. Reference should be made to Section 1 - Sampling Inspection by Attributes - of Appendix XI to K1001 for information regarding sampling inspection procedure.

2. Noise factor shall be measured under approved conditions.