

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

—————→ Indicates a change

TYPE OF VALVE - Low Noise RF Triode Amplifier			<u>MARKING</u>	
CATHODE	- Indirectly-heated		See K1001/4	
ENVELOPE	- Glass - Unmetallised			
PROTOTYPE	- VX3052			
<u>RATING</u>			<u>BASE</u>	
			B7G	
			<u>CONNECTIONS</u>	
			<u>Pin</u>	<u>Electrode</u>
			1	Grid
			2	Cathode
			3	Heater
			4	Heater
			5	No connection
			6	Internally connected
			7	Anode
			<u>DIMENSIONS</u>	
			See BS.448 : 1953	
			B7G/2.1	
			<u>Dimension (mm)</u>	<u>Min.</u> <u>Max.</u>
			A Seated height	43 49
			C Diameter	- 19
			D Overall length	49 55
			<u>MOUNTING POSITION</u>	
			Any	
<u>NOTE</u>				
1. Measured at: $V_a = 150V$; $I_a = 10mA$.				

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		Units
						Min.	Max.	
a	Heater Current		2.5	I	Th	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 \pm 5%; Frequency = 45 Mc/s; Note 2	2.5	II	NF	-	2.2	db
g	Capacitances	See K1001/AIII No voltages No voltages Rk = 180 \pm 5%	6.5	IB	Cag C out C in (hot)	0.8 1.0 2.6	1.0 1.6 3.9	pF pF pF

NOTES

- Reference should be made to Section 1 - Sampling Inspection by Attributes - of Appendix XI to K1001 for information regarding sampling inspection procedure.
- Noise factor shall be measured under approved conditions.

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AMENDMENT NO. 1

Page 2

Test Clause g Capacitances

In column headed "Test Conditions"

Delete "See K.1001/AIII"

Substitute "Measured on 1 Mc/S bridge with the Valve mounted
in a fully screened socket. No shield".

In columns headed "Limits"

Amend to read as follows:-

	Min.	Max.
C _{ag}	0.8	1.1 pf
C _{out}	0.8	1.2 pf
C _{in} (hot)	2.6	3.9 pf

January, 1959.

V.44799/D.

R.R.E.

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

Add Note 3 as follows:

3. V_h = 6.3 v, V_{hk} = 90 min. applied via a limiting
resistance not exceeding 1.5 M ohm. THIS

January, 1960 TEST SHALL BE CARRIED OUT WITH
CATHODE POSITIVE TO HEATER
ONLY. (VIDE AMP. No 4 of J4463 W) R.R.E.