

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOS(A)/CV 416

ISSUE 4 DATED 8.11.54

AMENDMENT NO.1

Page 2      Clause "h"

In column headed "Limits Min."

Delete      "20"      Substitute "15"

In column headed "Limits Max."

Delete      "34"      Substitute "25"

July, 1960  
N.33226

T.V.C. for R.A.E.

416

ELECTRONIC VALVE SPECIFICATIONS

SPECIFICATION MOSA/CV416 ISSUE NO. 4 DATED 8.11.54

AMENDMENT NO. 2

Page 2. Test Clause (a) Capacitances

C in.      Delete Min. Limit '5.6' and Max. Limit  
                 '7.6' and substitute '5.2' and '7.2'  
                 respectively.

C out.      Delete Min. Limit '5.0' and Max. Limit  
                 '6.8' and substitute 4.4' and '6.2'  
                 respectively.

January 1964  
N.213552

T.V.C. for R.A.E.

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

Specification MOSA/CV.416 Issue 4 Dated 8.11.54. To be read in conjunction with B.S.448, B.S.1409 and K.1001.	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

TYPE OF VALVE - H.F. Beam Tetrode CATHODE - Indirectly heated ENVELOPE - Glass PROTOTYPE - VX.6055			<u>MARKING</u> See K.1001/4		
<u>RATING</u>			<u>BASE</u> BS 448/B7G		
			<u>CONNECTIONS</u>		
			Note		
			Pin	Electrode	
			1	g1	
			2	k	
			3	h	
			4	h	
			5	a	
			6	bp	
			7	g2	
			<u>DIMENSIONS</u>		
			See B.S.448/B7G/2.1. Size Ref. No. 2.		
			Dimensions (mm)		Min. Max.
			A seated height		- 47.5
			C diameter		- 19.0
			D overall length		- 54.5
			C		
			D		
			A		
<u>CAPACITANCES</u> (pF)					
C in (Nom.)			6.6	B	
C out (Nom.)			5.9	B	
Ca, g1 (Nom.)			0.033	B	
<u>NOTES</u>					
A. At $V_a = V_{g2} = 200$ , $I_a = 17$ mA.					
B. Measured with a close fitting metal shield.					
C. At the maximum permissible peak cathode current of 250 mA.					
D. At a peak current of not more than 40 mA.					
E. All limiting values are absolute.					

To be performed in addition to those applicable in K.1001

Test Conditions						Test	Limits		No. Tested	Note											
							Min.	Max.													
a. See K.1001/ATII Measurements to be made in adaptor Type 124, Ref. No. 10AD/9						<u>CAPACITANCES</u> (pF)				1											
											Links to H.P.	Links to L.P.	Links to E.	C in	5.6	7.6	6				
											1	2,3,4,6, 7,8,9	5,10,TC1, TC2.					C out	5.0	6.8	per week
											5	2,3,4,6, 7,8,9.	1,10,TC1, TC2.								
Vh	Va	Vg2	Vg3	Ia	Ih (A)	0.27	0.33	100% or S													
b 6.3	0	0	0	0					-Vg1 (V)	8.4	15.8	100%									
c 6.3	200	200	0	17	Reverse Ig (μA)	-	0.75	100%													
d 6.3	200	200	0	17					gm (mA/V)	2.6	2.6	5.0	100% 20 per week								
e 6.3	200	200	0	17	Ig2 (mA)	2.05	5.1	100% or S													
(Peak grid swing ±0.25 V max.)									-Vg1 (V)	-	38	100%									
f 6.3	200	200	0	17	Vg2 change (V)	20	34	20 per week													
g 6.3	200	200	0	100 μA					Ia (mA)	133	-	100%									
Reduce Vg1 by 2 V and reduce Vg2 to maintain Ia = 17 mA.																					
j 6.3	300	300	0		Vg1 = -100V DC. with super- imposed pulses of 10-12 μ.secs. duration, +100V peak value and 400:1 off: on ratio.																

## NOTE

1. Test to be carried out with the valve fully shielded.