ELECTRONIC VALVE SPECIFICATIONS
SPECIFICATION MOS(A)/CV.415
ISSUE 7 DATED 8.11.54
AMENDMENT No.1.

PAGE 2.

(1) Clause "c" amend the limits of "-9.8" to "-18.2" to read "-12" to "-20".

(2) Clause "d" amend the maximum limit of "5" to read "2.5".

September, 1960. R.A.E.

N.33757

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

VALVE ELECTRONIC

CV415

Specification MOSA/CV415
Issue 7 Dated 8.11.54
To be read in conjunction with B.S.448, B.S.1409 & K1001

SECURITY	
Specification	Valve
UNCLASSIFIED	UNCLASSIFIED

---------► Indicates a change

TYPE OF VALVE - Double Tetrode Beam Power Amplifier

CATHODE - Indirectly Heated

ENVELOPE - Glass, lower portion in metal shell

PROTOTYPE - VX.3087

MARKING

See K1001/4

BASE

B.S.448/B9G

RATINGS			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	1.6	
Max. Operating Anode Voltage	(V)	400	A
Max. Operating Screen Voltage	(V)	400	A
Max. Anode Dissipation (per anode)	(W)	8.0	A
Max. Screen Dissipation (total)	(W)	3.0	A
Mutual Conductance	(mA/V)	3.9	B
Max. Operating Frequency	(Mc/s	150	

CONNECTIONS

Pin	Electrode
1	h
2	g'1
3	k' + s
4	a'
5	g'2 + g"2
6	a"
7	k" + s
8	g"1
9	h

CAPACITANCES (pF)

(per section)

1.	C in	9.0
2.	C out	7.5
3.	Ca,g1	0.05

DIMENSIONS

See K1001/A1/D2, with the following exceptions:-

Dimension		Min.	Max.
E	(mm)	-	70
P	(mm)	-	41
Q	(mm)	-	45

The groove on the spigot is optional

NOTES

A. Absolute maximum values.

B. Measured at: Va = 250V; Vg2 = 135V; Ia = 30 mA

Z.6344.R.

To be performed in addition to those applicable in K1001

Test Conditions						Test	Limits Min.	Limits Max.	No. Tested	Note
a	See K1001/AIII Measurements to be made in Adaptor Type 125, Ref. 10AD/24					CAPACITANCES (pF)				
	Links to H.P.		Links to L.P.		Links to E					
	2		1,3,5,6,7, 8,9,10		4, TC1, TC2	C in′	-	10.25	6 per week	
	4		1,3,5,6,7, 8,9,10		2, TC1, TC2	C out′	-	9.5	6 per week	
	4		2		1,3,5,6,7, 8,9,10, TC1, TC2	C a′,g1′	-	0.06	T.A.	
	8		1,2,3,4, 5,7,9,10		6,TC1 TC2	C in″	-	10.25	6 per week	
	6		1,2,3,4, 5,7,9,10		8,TC1, TC2	C out″	-	9.5	6 per week	
	6		8		1,2,3,4,5, 7,9,10, TC1,TC2.	C a″,g1″	-	0.06	T.A.	
						C in′ + C in″	-	20.25	T.A.	
	Vh (V)	Va (V)	Vg2 (V)	Vg1 (V)	Ia (mA)					
b	6.3	0	0	0	0	Ih (A)	1.44	1.76	100% or S	
c	6.3	250	135	-	30	Vg1 (V)	-9.8	-18.2	100%	1
d	6.3	250	135	-	30	Ig2 (mA)	-	5.0	100% or S	
e	6.3	250	135	-	30	gm (mA/V)	2.9	4.9	100%	1
	Peak Grid Swing = 1V max.									
f	6.3	250	135	-	30	Reverse Ig1 (μA)	-	2.0	100%	1
g	6.3	250	135	-50	-	Ia (mA)	-	1.0	100%	1
h	6.3	250	250	-100V D.C. Plus 100V Peak sinusoidal A.C.(50 c.p.s.)	-	Mean Ia (mA)	25	-	100%	1

NOTES

1. Test to be made on each section separately, a bias of -50 volts being applied to the section not under test.