

AMENDMENT NO. 1

to Specification CV2411 - Issue 1 - December 1956

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Test (d)

Amend 3 mA Max limit to read 5 mA Max. limit.

August, 1957

T.V.C.
for G.P.O.

N5022R

VALVE ELECTRONIC

CV2411

GENERAL POST OFFICE: E-IN-C (S)

Specification: GPO/CV 2411/Issue 1 Dated: December, 1956. To be read in conjunction with K 1001, BS 448 & BS 1409.	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	Unclassified	Unclassified

<u>TYPE OF VALVE:</u> Output pentode <u>CATHODE:</u> Indirectly Heated <u>ENVELOPE:</u> Glass unmetallised <u>PROTOTYPE:</u> VX 8194			<u>MARKING</u> See K 1001/4		
			<u>BASE</u> BS 448/B9A		
<u>RATING</u>		Note	<u>CONNEXIONS</u>		
			<u>Pin</u>		<u>Electrode</u>
Heater voltage	(V) 12.6		1	IC	
Heater current	(A) 0.150		2	g1	
Max. anode voltage (Ia = 0)	(V) 550	A	3	k, g3	
Max. screen grid voltage (Ig2 = 0)	(V) 275	A	4	h	
Max. anode operating voltage	(V) 275	A	5	h	
Max. screen grid operating voltage	(V) 275	A	6	IC	
Max. anode dissipation	(W) 9.5	A	7	a	
Max. screen grid dissipation	(W) 2.0	A	8	g2	
Anode current	(mA) 27	B	9	h tap	
Screen grid current	(mA) 1.9	B			
Mutual conductance	(mA/V) 3.2	B	<u>DIMENSIONS</u>		
Inner amplification factor	8.5	B	See BS 448/B9A/2.1 Size Ref. 3		
Max. cathode current	(mA) 42	A	Dimension (m.m) Min. Max.		
Max. heater-cathode voltage	(V) 65	A	A seated height - 60.5		
Power output	(mW) 80	D	C Diameter 19 22.2		
			D overall length - 67.5		
<u>CAPACITANCES.</u>					
Cag. (max.)	(pF) 0.75	C			
C in.	7.5	C			
C out.	6.2	C			
<u>NOTES.</u>					
A. Absolute maximum values					
B. Measured at Va = Vg2 = 250 volts and Rk = 550 ohms					
C. Measured without metal screen					
D. Measured at Va = Vg2 = 50 volts, Vg1 = 3.3 volts, Ra = 12.5K ohms and V in = 1.8 volts r.m.s.					

CV2411

TESTS

To be performed in addition to those applicable in K 1001

	TEST CONDITIONS							TEST	LIMITS		AQL	INSP-LEVEL	NOTE
	Links to H.P.	Links to L.P.	Links to E.						MIN	MAX			
a	7	2	1,3,4,5,6,8,9.					Cag (pF)	-	0.75		20	1
	2	1,3,4,5,6,8,9.	7					C in (pF)	7.1	7.9		per	
	7	1,3,4,5,6,8,9.	2					C out (pF)	5.7	6.7		week	
	Vh (v)	Va (v)	Vg 2 (v)	Vg 1 (v)	Ra (Kohms)	V in (Vrms)	Rk (ohms)						
b	12.6							Ih (A)	0.138	0.162		100% or S	
c	12.6	250	250				550	Ia (mA)	18	36		100%	
d	12.6	250	250				550	Ig2 (mA)	-	3.0		100%	
e	12.6	250	250				550	-Ig1 (uA)	-	1.0		100%	
f	12.6	250	250				550	gm (mA/V)	2.4	4.0		100%	
g	12.6	250	250	-32.5				Ia (mA)	-	4.0		100%	
h	12.6	250	250				550	Inner u	6.0	11.0	6.5	IB	2
j	12.6	50	50	- 3.5	12.5	1.8		Power output (mW)	65	-	2.5	IA	
NOTES. 1. Measured without metal screen 2. Alternative test may be made at Vg1 = -17.5 volts													

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