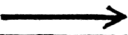


Specification MOS(A)/CV2524				<u>SECURITY</u> <u>Specification</u> <u>Valve</u> UNCLASSIFIED UNCLASSIFIED																				
Issue 2 Dated 1.11.57																								
To be read in conjunction with K1001																								
 Indicates a change																								
TYPE OF VALVE - RF Pentode, Sharp Cut-off CATHODE - Indirectly-heated ENVELOPE - Glass - Unmetallised PROTOTYPE - 6AU6 RETMA DESIGNATION - 6AU6				<u>MARKING</u> See K1001/4 (Note C)																				
<u>RATING</u>				<u>BASE</u> B7G																				
				<u>CONNECTIONS</u>																				
				<table border="1"> <thead> <tr> <th>Pin</th> <th>Electrode</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Control Grid</td> </tr> <tr> <td>2</td> <td>Suppressor Grid</td> </tr> <tr> <td></td> <td>Internal Shield</td> </tr> <tr> <td>3</td> <td>Heater</td> </tr> <tr> <td>4</td> <td>Heater</td> </tr> <tr> <td>5</td> <td>Anode</td> </tr> <tr> <td>6</td> <td>Screen Grid</td> </tr> <tr> <td>7</td> <td>Cathode</td> </tr> </tbody> </table>			Pin	Electrode	1	Control Grid	2	Suppressor Grid		Internal Shield	3	Heater	4	Heater	5	Anode	6	Screen Grid	7	Cathode
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				<u>MOUNTING POSITION</u> Any																				
<u>NOTES</u> A. All limiting values are absolute. B. $\pm 10\%$. C. In addition to the requirements of K1001/4 the RETMA designation shall also be clearly and indelibly marked on the valve																								

TESTS

CV2524 To be performed in addition to those applicable in K1001

Test Conditions - unless otherwise specified

Vh	Va	Vg2	Rk	Ck
(V)	(V)	(V)	(ohms)	(uF)
6.3	250	150	68	1000

(Note 1)

Test		Test Conditions	AQL %	Insp. Level	Sym- bol	Limits		Units
						Min.	Max.	
a	Cancelled							
b	Heater Current		6.5	IA	Ih	275	325	mA
c	Heater-cathode Leakage Current	Vhk = $\pm$ 100V	6.5	IA	Ihk	0	20	uA
d	Reverse Grid Current	Vg1 = -1.5V		100%	Ig1	0	-1.0	uA
e	Anode Current (1)			100%	Ia	8.0	13.5	mA
f	Anode Current (2)	Vg1 = -8V	6.5	IA	Ia	-	50	uA
g	Screen Grid Current		6.5	IA	Ig2	2.6	6.0	mA
h	Mutual Conductance			100%	gm	4.15	6.25	mA/V
j	Cancelled							
k	Emission	Va = Vg1 = Vg2= 20V; Rk = 0		100%	Ia	60	-	mA
m	Capacitance	With shield Note 3	6.5	IA	Cag C in C out	- 4.4 3.5	.0035 6.6 6.5	pF pF pF
n	Life Test <u>Life Test End-point</u> <u>- 500 hours</u> Mutual conductance	Vhk = 100V heater positive; Rg = 50k min See K1001/AVI/5 Note 4			gm	3.4	-	mA/V

NOTES

1. The reference point for all potentials except heater and suppressor shall be the negative terminal of the cathode resistor.
2. Cancelled.
3. This test shall be performed using a one Mc bridge and a fully screened socket.
4. This test shall be performed on 4 valves per week.