MINISTRY OF SUPPLY - DLRD(A)/RRE

VALVE ELECTRONIC **CV 2524**

Specification MOS(A)/CV2524
Issue 2 Dated 1.11.57
To be read in conjunction with K1001

SECURITY	
Specification	Valve
UNCLASSIFIED	UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - RF Pentode, Sharp Cut-off
CATHODE - Indirectly-heated
ENVELOPE - Glass - Unmetallised
PROTOTYPE - 6AU6
RETMA DESIGNATION - 6AU6

MARKING

See K1001/4 (Note C)

RATING

			Note
Heater Voltage	(V)	6.3	B
Heater Current	(A)	0.3	
Max. DC Anode Voltage	(V)	330	
Max. DC Screen Grid Voltage	(V)	165	
Max. Screen Dissipation	(W)	0.7	
Max. Anode Dissipation	(W)	3.3	
Max. Positive Heater-cathode Voltage	(V)	100	
Max. Negative Heater-cathode Voltage	(V)	-200	

BASE
B7G

CONNECTIONS

Pin	Electrode
1	Control Grid
2	Suppressor Grid Internal Shield
3	Heater
4	Heater
5	Anode
6	Screen Grid
7	Cathode

DIMENSIONS

See BS.448 B7G/2.1.2

Dimension (mm)	Min.	Max.
A. Seated height	-	47.5
C. Diameter	-	19.0
D. Overall length	-	54.5

MOUNTING POSITION

Any

NOTES

A. All limiting values are absolute.
B. ± 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 (V)	Va (V)	Vg2 (V)	Rk (ohms)	Ck (uF)
6.3	250	150	68 (Note 1)	1000

	Test	Test Conditions	AQL %	Insp. Level	Symbol	Limits Min.	Limits Max.	Units
a	Cancelled							
b	Heater Current		6.5	IA	Ih	275	325	mA
c	Heater-cathode Leakage Current	Vhk = ± 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 Life Test End-point - 500 hours 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.