MINISTRY OF SUPPLY - DLRD(A)/RRE (SOUTH) VALVE ELECTRONIC

CV1862

Specification MOS(A)/CV1862	SECURITY	
	Specification	Valve
Issue 3 Dated 18.6.54	UNCLASSIFIED	UNCLASSIFIED
To be read in conjunction with K1001		

→ Indicates a change

TYPE OF VALVE - Beam Tetrode
CATHODE - Indirectly-heated
ENVELOPE - Glass - Unmetallised
PROTOTYPE - 6AQ5
RETMA DESIGNATION - 6AQ5

MARKING

See K1001/4
Additional Marking - 6AQ5
(See Note D)

RATING

			Note
Heater Voltage	(V)	6.3	
Heater Current	(A)	0.45	
Max. Anode Voltage	(V)	275	A
Max. Screen Voltage	(V)	275	A
Max. Anode Dissipation	(W)	13.2	A
Max. Screen Dissipation	(W)	2.2	A
Mutual Conductance	(mA/V)	4.1	B
Anode Impedance	(ohms)	52000	B

CAPACITANCES (pF)

Cge	7.6	C
Cae	6.0	C
Cag	0.35	C

BASE

B7G

CONNECTIONS

Pin	Electrode
1	Control Grid
2	Cathode and Beam Plates
3	Heater
4	Heater
5	Anode
6	Screen Grid
7	Control Grid

DIMENSIONS

See K1001/A1/D4

Dimension (mm)	Min.	Max
A	-	66.8
B	-	19

MOUNTING POSITION

Any

NOTES

A. Absolute maximum value.

B. Measured at: Va = Vg2 = 250V; Vg3 = 0; Vg1 = -12.5V

C. Measured without a metal screen

D. In addition to the requirements of K1001/4, the RETMA designation shall also be clearly and indelibly marked on the valve.

Z.6605.R.

To be performed in addition to those applicable in K1001

	Test Conditions					Test		Limits Min	Limits Max	No. Tested	Note
	Vh (V)	Va (V)	Vg3 (V)	Vg2 (V)	Vg1 (V)						
a	6.3	-	-	-	-	Ih	(A)	0.41	0.49	100% or S	
b	6.3	-	-	-	-	Ihc	(μA)	-	50	100%	1
c	6.3	250	0	250	-12.5	Reverse Ig1	(μA)	-	2	100%	
d	6.3	250	0	250	-12.5	Ia	(mA)	33	57	100%	2
e	6.3	250	0	250	-12.5	Ig2	(mA)	-	7.5	100% or S	
f	6.3	250	0	250	-12.5	gm	(mA/V)	3	5.2	100%	
g	6.3	250	0	250	-12.5	Power Output	(W)	3.6	-	Note 3	4
h	6.3	30	0	30	30	Emission	(mA)	100	-	100%	5

NOTES

1. Vhc = ± 100V DC through 100k resistor.
2. Tested first with Pin 1 at voltage Vg1 and Pin 7 disconnected, and then with Pin 7 at voltage Vg1 and Pin 1 disconnected.
3. Test shall be performed in accordance with K1001/AXI AQL = 2.5%; Inspection Level = II
4. Signal Vg1 = 8.8V AC; load resistor = 5k
5. Test to be applied only for sufficient time to obtain a steady reading.