

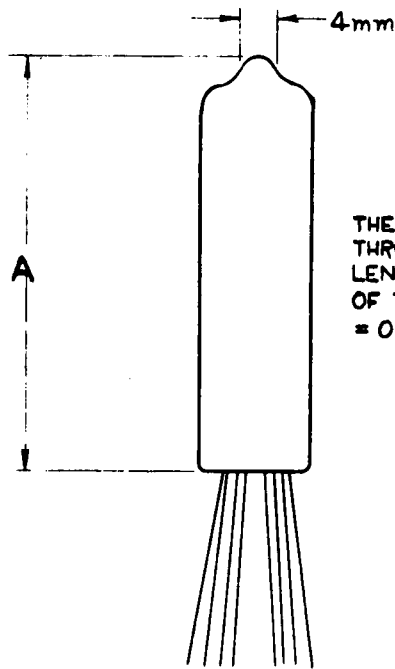
Specification MO3A/CV2105	<u>SECURITY</u>
Issue 2 Dated 1.10.57.	<u>Specification</u> <u>Valve</u>
To be read in conjunction with K1001, BS448 and BS1409.	UNCLASSIFIED UNCLASSIFIED

—————> Indicates a change

TYPE OF VALVE - Sub Min. R.F. Output Pentode			<u>MARKING</u> CV number, T.A. letters, Factory and date code, only required.
CATHODE - Directly Heated			<u>BASE</u> BS448/BS8/F.
ENVELOPE - Glass			
PROTOTYPE - VK.8065			
<u>RATING</u> (All limiting values are absolute.)			
	Note	Lead	Electrode
Filament Voltage (V)	1.25	1	IC
Filament Current (mA)	110	2	g1
Max. Filament Voltage (V)	1.55	3	NC
Max. Anode Voltage (V)	165	4	f- and g3
Max. Screen Voltage (V)	165	5	f+
Max. Cathode Current (mA)	14	6	NC
Max. Anode Dissipation (W)	1.1	7	a
Max. Screen Grid Dissipation (W)	0.5	8	c2
Max. Control Grid Voltage (V)	-33		
Max. Operating Frequency (Mc/s)	100		
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u> See drawing on page 3
C in (nom)	3.0	A	Dimension Min. Max.
C out (nom)	5.6	A	
Ca, g1 (max)	0.1	A	A mm - 44.3
			B mm 9.3 10.16
			<u>Mounting POSITION</u> Any
<u>NOTES</u>			
A. Measured with a close fitting metal screen.			
B. Direct soldered connections to the leads of this valve must be at least 5 mm from the seal and any bending of the valve leads must be at least 1.5 mm from the seal.			

To be performed in addition to those applicable in K.1001.

Test Conditions					Test	Limits		No. Tested	Note
						Min.	Max.		
	Links to H.P.	Links to L.P.	Links to E		<u>CAPACITANCE (pF)</u>				
→ a	2	1,3,4,5,6,8, Shield	7		C in	2.5	3.5	6 per week	1
→	7	1,3,4,5,6,8, Shield	2		C out	4.8	6.4		
→	2	7	1,3,4,5,6,8, Shield		Ca,g1	-	0.1		
	Vr	Va (V)	Vg2 (V)	Vg1 (V)					
b	1.25	0	0	0	If (mA)	100	120	100% or S	
c	1.25	135	90	-7.5	Ia (mA)	5.3	9.7	100%	
d	1.25	135	90	-7.5	Ig2 (mA)	1.0	2.0	100%	
→ e	1.25	135	90	-7.5	Reverse g1 current (μA)	-	0.5	100%	2
f	1.25	135	90	-7.5	gm (mA/V)	1.4	2.4	100%	
g	1.0	135	90	-7.5	gm (mA/V)	1.0	-	100%	
h	1.25	135	90	-23	Ia tail (μA)		600	100%	2
<u>NOTES</u>									
1. Measured with a close fitting metal screen.									
2. 0.1 Megohm protective resistance in series.									



BULB STRAIGHTNESS TEST
THE FINISHED VALVE MUST PASS THROUGH A CYLINDRICAL GAUGE OF LENGTH AT LEAST EQUAL TO THAT OF THE BULB. I.D. OF CYLINDER = 0.4 INCH.

THE LEADS SHALL BE FLEXIBLE 25-27 SWG. TINNED WIRE AT LEAST 38 mm. IN LENGTH.

