

Specification MOS(A)/CV.2300 Issue 3 Dated 3.1.57 To be read in conjunction with B.S.448, B.S.1409 and K.1001	<u>SECURITY</u>	
	<u>Specification</u>	<u>Valve</u>
	UNCLASSIFIED	UNCLASSIFIED

TYPE OF VALVE - Power Amplifier Pentode CATHODE - Directly heated ENVELOPE - Glass unmetallized PROTOTYPE - 3A4 (Selected)		<u>MARKING</u>	
		See K.1001/4 Additional marking:- 3A4	
<u>RATING</u>		<u>BASE</u>	
		B.S.448/B7G	
		<u>CONNECTIONS</u>	
		Pin	Electrode
Filament Voltage (series)	(V) 2.8	1	f Note B
Filament Current (series)	(mA) 100	2	a
Filament Voltage (parallel)	(V) 1.4	3	g2
Filament Current (parallel)	(mA) 200	4	g1
Max. Anode Voltage	(V) 165	5	f and g3 Note B
Max. Screen Voltage	(V) 150	6	a
Max. Anode Dissipation	(W) 2.2	7	f(+)
Max. Screen Dissipation	(W) 1.0		
Max. Cathode Current	(mA) 27		
Mutual Conductance	(mA/V) 2.0		
Anode Impedance	(MΩ) 0.1		
		Note	
		A	
		A	
		A	
		A	
		C	
		C	
<u>CAPACITANCES (pF)</u>		<u>DIMENSIONS</u>	
C in (nom)	4.8	D	See B.S.448/B7G/2.1
C out (nom)	4.2	D	Size Ref. No. 2
C a, g1 (max)	0.35	D	
		Dimensions (mm)	Min. Max.
		A seated height	- 47.8
		C diameter	16.0 19.0
		D overall length	- 54.5
		<u>MOUNTING POSITION</u>	
		Any	
<u>NOTES</u>			
A. Absolute value.			
B. Pin 1 is filament negative for Vf = 2.8V. Pin 5 is filament negative for Vf = 1.4V.			
C. At Va = 150V; Vg2 = 90V; Vg1 = -8.4V. (Ia = 13.3mA; Ig2 = 2.3mA).			
D. Measured with valve unscreened.			

To be performed in addition to those applicable in K1001

	Test conditions				Test	Limits		No. tested
						Min.	Max.	
a	See K1001/AIII				Capacitances (PF)			6 per week
	Links to H.P.	Links to L.P.	Links to E.					
	4	1,3,5,7	2,6,8,9,10,TC ₁ ,TC ₂			C in	3.9 5.7	
	2,6	1,3,5,7	4,8,9,10,TC ₁ ,TC ₂			C out	3.0 5.4	
	2,6	4	1,3,5,7,8,9,10,TC ₁ ,TC ₂		Ca,g	- 0.35		
	V _f	V _a	V _{g2}	V _{g1}				
b	1.4	-	-	-	I _f (mA)	180	220	100% or S
c	1.4	150	90	-8.4	Reverse I _{g1} (μA)	-	1.0	100%
d	1.4	150	90	-8.4	I _a (mA)	9.2	17.4	100%
e	1.4	150	90	-8.4	I _{g2} (mA)	1.3	3.3	100% or S
f	1.4	150	90	-8.4	g _m (mA/V)	1.67	2.45	100%
g	1.1	150	90	0	I _a (Note 1) (mA)	20	-	100%
h	1.4	150	90	-23	I _a out off (μA)	-	700	100% or S
j	<u>Functional Equipment Test</u> The valve shall function satisfactorily when inserted in Transmitter Unit Type 87 A.M. Ref. 10R/85 (Part of Transmitter T.1946).							T.A.
<u>NOTES</u>								
1. This is a snap test.								

CV2300/3/2