

Specification MOSA/CV1598 Issue 5 Dated 30.7.53 To be read in conjunction with K1001	<u>SECURITY</u> <u>Specification</u> UNCLASSIFIED <u>Valve</u> UNCLASSIFIED
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→ Indicates a change

TYPE OF VALVE - Variable - μ H.F. Pentode			<u>MARKING</u> See K1001/4		
CATHODE - Indirectly heated			<u>BASE</u> B7 See K.1001/AIV/D5.3.		
ENVELOPE - Glass, unmetallised					
PROTOTYPE - 9D2 (VR106A)					
<u>RATING</u>		Note	<u>CONNECTIONS</u>		
			Pin	Electrode	
Heater Voltage	(V) 13	A A A	1	No connection	
Heater Current	(A) 0.15		2	Anode	
Max. Anode Voltage	(V) 250		3	Suppressor Grid	
Max. Screen Voltage	(V) 125		4	Heater	
Mutual Conductance	(mA/V) 1.65		5	Heater	
Anode Impedance	(M Ω) 0.6		6	Cathode	
Amplification Factor	1000		7	Screen Grid	
			T.C.	Control Grid	
<u>CAPACITANCES (pF)</u>		0.025 13 4.7	<u>TOP CAP</u> See K1001/A1/D5.1		
Gag (Max.)			<u>DIMENSIONS</u> See K1001/A1/D1		
Cae					
Cge					
			Dimensions	Min.	Max.
			A mm.	108	117
			B mm.	-	39
			C mm.	-	35
<u>NOTES</u>					
A. Measured at $V_a = 250$, $V_{g2} = 125$, $V_{g1} = -3$					

To be performed in addition to those applicable in K1001

Test Conditions						Test	Limits		No. Tested
							Min.	Max.	
a	See K1001/AIII					<u>CAPACITANCES (pF)</u>	11.5	14.5	6 per week
	Links to H.P.	Links to L.P.	Links to E.						
	2	1,3,4,5, 6,7	8,9,10, TC1.TC2						
	T.C.1	1,3,4,5, 6,7	2,8,9, 10,TC2						
	With valve screened					3. Cag	-	0.025	
b	Vh	Va	Vg2	Vg1	Vg3				
	13.0	0	0	0	0	Ih (A)	0.135	0.165	100% or 8
	13.0	250	125	-3	0	Ia (mA)	6.0	13.0	100%
	13.0	250	125	-3	0	Ig2 (mA)	1.9	3.3	100% or 8
	13.0	250	125	-3	0	gm (mA/V)	1.3	2.0	100%
	Peak grid swing $\pm 0.5V$ Max.								
	13.0	250	125	-3	0	Reverse Ig (μA)	-	2.0	100%
g	13.0	250	125	-30	0	Tail Ia (mA)	-	1.0	100%
h	13.0	30	30	30	30	Ic (mA)	50	-	100%