

Specification MOSA/CV2275 Issue 2 Dated 20.1.55 To be read in conjunction with B.S.1409 & K.1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - U.H.F. Triode CATHODE - Directly Heated ENVELOPE - Glass unmetallised PROTOTYPE - VL 8105			<u>MARKING</u> See K1001/4		
<u>RATING</u>			<u>BASE</u> B8D		
Note			<u>CONNECTIONS</u>		
			Pin	Electrode	
Filament Voltage	(V) 1.25	B			
Max. Filament Voltage	(V) 1.35				
Filament Current	(A) 0.2		1	g	
Max. Anode Voltage	(V) 170		2	NC	
Max. Anode Dissipation	(W) 2.6		3	NC	
Max. Cathode Current	(mA) 22		4	f(-)	
Mutual Conductance	(mA/V) 3.75	A	5	f(+)	
Amplification Factor	14	A	6	NG	
Anode Impedance	(kΩ) 4	A	7	NC	
			8	a	
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>		
C in (Nom.)	1.3	C	See K.1001/A1/D10		
C out (Nom.)	1.9	C	Dimension	Min.	Max.
Ca, g (Nom.)	1.5	C	A m.m.	-	44.3
			B m.m.	-	10.16
<u>NOTES</u>					
A. Measured at $V_a = 150$, $I_a = 14.5$ mA ($V_g = -4.5$ approx.)					
B. This assumes no R.F. heating effects in the filament, where such heating occurs the max. Vf must be reduced to 1.30. In no case shall the R.F. heating exceed 25 mW.					
C. Measured with a close fitting metal shield.					

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

Test Conditions				Test	Limits		No. Tested	Note				
					Min.	Max.						
See K.1001/AIII				<u>CAPACITANCES (pF)</u>			6					
Links to H.P.	Links to L.P.	Links to E.										
1	4,5.	2,3,6,7,8.	C in						1.0	1.6	per	1
8	4,5.	1,2,3,6,7.	C out						1.5	2.3	week	1
8	1	2,3,4,5,6,7.	C _a , g	1.2	1.8		1					
	V _F	V _a	V _g									
a	1.25	0	0	I _F (mA)	180	220	100% or 5					
→ b	1.25	150	-4.5	I _a (mA)	10.5	18.5	100%					
c	1.25	150	-4.5	-I _g (μA)	-	0.5	100%	2				
→ d	1.25	150	-4.5	g _m (mA/V)	3.0	4.5	100%					
→ e	1.0	150	-4.5	g _m (mA/V)	2.5	-	100%	3				
<u>NOTES</u>												
<ol style="list-style-type: none"> 1. Measured with close fitting metal shield, connected to cathode. 2. Megohm protective resistance in series, limits to be decided. 3. This may be replaced by a dynamic test at a later date. 												

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