

Specification MOSA/CV2156

Issue 2; Dated 1-1-53

To be read in conjunction with K1001

SECURITY

Specification

UNCLASSIFIED

Valve

UNCLASSIFIED

—> Indicates a change

TYPE OF VALVE - Double Tetrode Beam Power Amplifier CATHODE - Indirectly Heated ENVELOPE - Glass, lower portion in metal shell PROTOTYPE - CV.415				<u>MARKING</u> See K1001/4	
				<u>BASE</u> B9G	
				<u>CONNECTIONS</u>	
<u>RATINGS</u>		<u>Note</u>		<u>Pin</u>	<u>Electrode</u>
Heater Voltage	(V)	19	A	1	Heater
Heater Current	(A)	.53		2	Control Grid (a)
Max. Anode Voltage	(V)	350		3	Cathode & I.S.
Max. Screen Voltage	(V)	250		4	Anode (a)
Max. Anode Dissipation				5	Screen Grid (a & b)
(per anode)	(W)	7.5		6	Anode (b)
Max. Screen Dissipation				7	Cathode & I.S.
(total)	(W)	2.6		8	Control Grid (b)
Mutual Conductance	(mA/V)	3.9		9	Heater
Max. Operating Frequency	(Mc/s)	150		<u>DIMENSIONS</u> See K1001/A1/D2, with the following exceptions:	
<u>CAPACITANCES (pF)</u> (per Section)				<u>Dimension</u>	<u>Min.</u> <u>Max.</u>
1. C _{ae}		7.5		E	(mm) - 70
2. C _{ge}		9.0		P	(mm) - 41
3. C _{ag}		0.05		Q	(mm) - 45
				The groove on the spigot is optional.	

NOTES

A. Measured at: V_a = 250V; V_{g2} = 135V; I_a = 30 mA.

TESTS

To be performed in addition to those applicable in K1001

Test Conditions						Test	Limits		No. Tested	Note
							Min.	Max.		
a	See K1001/A111 Measurements to be made in Adaptor Type 125, Ref.10AD/24					<u>CAPACITANCE (pF)</u>				
	Links to H.P.	Links to L.P.	Links to E							
	4	2	1,3,5,6,7, 8,9,10, TC1, TC2.				1. C_{a2-g1a}	-	0.06	T.A.
	4	1,3,5,6, 7,8,9,10	2, TC1, TC2.				2. C_{a2-e}	-	9.5	6 per week
	2	1,3,5,6, 7,8,9,10	4, TC1, TC2.				3. C_{g1a-e}	-	9.8	6 per week
	6	8	1,2,3,4,5, 7,9,10, TC1, TC2.				4. C_{ab-g1b}	-	0.06	T.A.
	6	1,2,3,4, 5,7,9,10	8, TC1, TC2.				5. C_{ab-e}	-	9.5	6 per week
8	1,2,3,4, 5,7,9,10	6, TC1, TC2.			6. C_{g1b-e}	-	9.8	6 per week		
b	Vh (V)	Va (V)	Vg2 (V)	Vg1 (V)	Ia (mA)	Ih (A)	.477	.583	100% or S	
	19	0	0	0	0					
c	19	250	135	-	30	Vg1 (V)	-9.8	-18.2	100%	1
d	19	250	135	-	30	Ig2 (mA)	-	5.0	100% or S	
e	19	250	135	-	30	g _a (mA/V)	2.9	4.9	100%	1
Peak Grid Swing = 1V max.										
f	19	250	135	-	30	Reverse Ig1 (μA)	-	2.0	100%	1
g	19	250	135	-50	-	Ia (mA)	-	1.0	100%	1
h	19	250	250	-100V.D.C. Plus 100V peak sinu- soidal A.C.(50 c.p.s.)	-	Mean Ia (mA)	25	-	100%	1

NOTES

1. Test to be made on each section separately a bias of -50 volts being applied to the section not under test.