

Specification MOSA/CV1988 Issue 2 Dated 11.11.1953 To be read in conjunction with K.1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

→ Indicates a change

TYPE OF VALVE - Double Triode			<u>MARKING</u>		
CATHODE - Indirectly heated			See K.1001/4.		
ENVELOPE - Glass, unmetallised			Additional Marking - 6SN7GT		
PROTOTYPE - 6SN7GT			<u>BASE</u>		
<u>RATING</u>			I.O.		
			<u>CONNECTIONS</u>		
			Note		
Heater Voltage (V)	6.3		Pin	Electrode	
Heater Current (A)	0.6		1	Control grid (b)	
Max. Anode Voltage (V)	330		2	Anode (b)	
Mutual Conductance (mA/V)	2.6	A	3	Cathode (b)	
Amplification Factor	20.5	A	4	Control grid (a)	
Max. Anode Dissipation (W)	2.75	B	5	Anode (a)	
Max. Cathode Current (per Section) (mA)	20	B	6	Cathode (a)	
			7	Heater	
			8	Heater	
<u>CAPACITANCES (pF)</u>			<u>DIMENSIONS</u>		
Ca(a)e	0.8		See K.1001/A1/D1.		
Ca(b)e	1.2		Dimension	Min.	Max.
Cg(a)e	2.8		A mm	-	84.3
Cg(b)e	3		B mm	-	33.5
Ca(a)g(a)	3.8				
Ca(b)g(b)	4				
<u>NOTES</u>					
A. Measured at $V_a = 250$, $V_{g1} = -8$.					
B. Per Section.					

To be performed in addition to those applicable in K1001

	Test Conditions			Test	Limits		No. tested	Notes
	Vh	Va	Vg		Min.	Max.		
a	6.3	0	0	Ih (A)	0.55	0.65	100% or S	
b	6.3	250	-8.0	Ia (mA)	5.5	12.5	100%	1
c	6.3	250	-8.0	gm (mA/V)	2.075	3.125	100%	1
d	6.3	250	-8.0	μ	18.0	23.0	20 per week	1
e	6.3	250	-8.0	Reverse Igl (μ A)	-	2.0	100%	1
f	6.3	250	-24.0	Ia (μ A)	-	5.0	100%	1 & 2
g	6.3	90	0	gm (mA/V)	2.40	3.60	100%	1
h	6.3	30	30	Ia (mA)	40.0	-	100%	1

NOTES

1. Tests to be applied to each half of the valve
2. Valves may be accepted with anode currents up to 20 μ A provided that the mutual conductance is not greater than 0.5 μ A/V at $V_{g1} = -24.0$.