

MINISTRY OF SUPPLY D.L.R.D.(A) /R.A.E.

Specification MOSA/CV.589 Issue 2 Dated 25.6.1953 To be read in conjunction with K.1001	SECURITY Specification Valve UNCLASSIFIED UNCLASSIFIED
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→ Indicates a change

TYPE OF VALVE - Double diode triode				<u>MARKING</u>					
ENVELOPE - Glass, unmetallised				See K.1001/4					
CATHODE - Indirectly heated				Additional Marking					
PROTOTYPE - 6Q7GT				6Q7GT					
<u>RATINGS</u>				<u>BASE</u>					
				I.O					
				<u>CONNECTIONS</u>					
				Note					
Heater Voltage (V) 6.3 Heater Current (A) 0.3 Max. Anode Voltage (V) 330 Anode Current (mA) 1.2 Mutual Conductance (mA/V) 1.2 Amplification Factor 70 Anode Impedance (k Ω) 58 Max. Diode Current (mA) 1.0						Pin		Electrode	
						1		No connection	
						2		Heater	
						3		Anode	
						4		Diode 2	
						5		Diode 1	
						6		Pin omitted	
						7		Heater	
						8		Cathode	
						T.C.		Control Grid	
				<u>TOP CAP</u>					
				See K.1001/AI/D5.2					
<u>CAPACITANCES (pF)</u>						<u>DIMENSIONS</u>			
C _{ae} 5.0 C _{ge} 2.2 C _{ag} 1.6						See K.1001/AI/D1			
						Dimension		Min.	Max.
						A mm.		78.0	84.3
						B mm.		-	33.5
<u>NOTE</u>									
A. At V _a = 250, V _{g1} = -3.0.									

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

Test Conditions				Test	Limits		No. Tested	Note
					Min.	Max.		
a	Vh 6.3	Va 0	Vg 0	Ih (A)	0.275	0.325	100% or S	
b	6.3	<u>Triode Section</u> 250 -3.0		Ia (mA)	0.4	2.0	100%	
c	6.3	250	-3.0	gm (mA/V)	0.95	1.6	100%	
d	6.3	250	-3.0	μ	55.0	85.0	100%	
e	6.3	250	-3.0	Reverse Ig (μ A)	-	0.5	100%	
f	Vh 6.3	<u>Diode Section</u> Va +10		Id (mA)	0.8	-	100%	1

NOTE

1. This test to be applied to both diodes.