

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

VALVE ELECTRONIC

CV511

Specification MOSA/CV511 Issue 3 Dated 29.5.1954 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> UNCLASSIFIED	<u>Valve</u> UNCLASSIFIED

—————> Indicates a change

TYPE OF VALVE - Output Beam Tetrode				<u>MARKING</u>		
CATHODE - Indirectly Heated				See K.1001/4.		
ENVELOPE - Glass, unmetallised				Additional Marking 6V6GTY		
PROTOTYPE - 6V6GTY						
<u>RATINGS</u>				See K1001/A11/D2 M Dimension <u>BASE</u> (iii) applies I.O.		
				<u>CONNECTIONS</u>		
				Note		
				Pin	Electrode	
Heater Voltage (V) 6.3				1	No connection	
Heater Current (A) 0.45				2	Heater	
Max. Anode Voltage (V) 350				3	Anode	
Max. Screen Voltage (V) 310				4	Screen Grid	
Max. Anode Dissipation (W) 13.2				5	Control Grid	
Max. Screen Dissipation (W) 2.2				6	Pin omitted	
Mutual Conductance (mA/V) 4.1				7	Heater	
				8	Cathode and beam forming plates	
<u>CAPACITANCES</u> (pF)				<u>DIMENSIONS</u>		
C _{ae} 9.05				See K1001/A1/D1		
C _{ge} 9.5						
C _{ag} (max.) 0.9						
				Dimensions	Min.	Max.
				A m.m.	-	84.3
				B m.m.	-	33.5
<u>NOTES</u>						
A. At V _a = V _{g2} = 250, V _{g1} = -12.5.						

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

Test Conditions					Test	Limits		No. Tested	Note
						Min.	Max.		
	Vh	Va	Vg ₂	Vg ₁	I _h (A)	0.41	0.49	100% or S	
a	6.3	0	0	0					
b	6.3	250	250	-12.5	I _a (mA)	33.0	57.0	100%	
c	6.3	250	250	-12.5	I _{g₂} (mA)	-	7.5	100% or S	
d	6.3	250	250	-12.5	g _m (mA/V)	3.0	5.2	100%	
e	6.3	250	250	-12.5	Reverse I _{g₁} (mA)	-	2.0	100%	
f	6.3	30	30	30	Emission (mA)	100	-	100%	