

MINISTRY OF SUPPLY (S.R.D.E.)

(42)

Specification MOS/CV609/Issue 4 Dated:- 2.7.46 To be read in conjunction with K1001.	<u>SECURITY</u> <u>Specification</u> Restricted	<u>Valve</u> Restricted
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—————> indicates a change

<u>TYPE OF VALVE:-</u> Output pentode				<u>MARKING</u>	
<u>CATHODE:-</u> Indirectly heated				See K1001/4	
<u>ENVELOPE:-</u> Glass-unmetallised				Additional marking :-	
<u>PROTOTYPE:-</u> 42				42	
<u>RATING</u>			Note	<u>BASE</u> US M6	
Heater voltage	(V)	6.3	A	<u>Pin</u>	<u>Electrode</u>
Heater current	(A)	0.65		1	Heater
Max. anode voltage	(V)	375		2	Anode
Max. screen voltage	(V)	285		3	Screen grid
Mutual conductance	(mA/V)	2.5		4	Control grid
				5	Cathode and suppressor
				6	Heater
<u>NOTES</u>				<u>DIMENSIONS</u>	
A. Measured at $V_a = 250$, $V_{g2} = 250$, $V_{g1} = -16.5$.				See K1001/AI/D1	
				<u>Dimension</u>	<u>Min.</u> <u>Max.</u>
				A mm	- 119
				B mm	- 46

TESTS

To be performed in addition to those applicable in K1001

	Test conditions				Test	Limits		No. tested
						Min.	Max.	
a	V _h	V _a	V _{g2}	V _{g1}	I _h (A)	0.615	0.685	100% or 5
	6.3	-	-	-				
b	6.3	250	250	-16.5	I _a (mA)	23	45	100%
c	6.3	250	250	-16.5	I _{g2} (mA)	4.0	5.0	100%
d	6.3	250	250	-16.5	g _m (mA/V)	1.9	-	100%
e	6.3	250	250	-16.5	Rev I _{g1} (uA)	-	2.5	100%