

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

Specification MOS/CV1347/Issue 6	<u>SECURITY</u>
Dated 21.9.46	<u>Specification</u> <u>Valve</u>
To be read in conjunction with K1001	Restricted Unclassified ←

—→ indicates a change

<u>TYPE OF VALVE:-</u> Triode-hexode			<u>MARKING</u>		
<u>CATHODE:-</u> Indirectly heated			See K1001/4		
<u>ENVELOPE:-</u> Metallised					
<u>PROTOTYPE:-</u> ECH35					
<u>RATING</u>			<u>BASE</u> See K1001/AI/D5.2 I.O M Dimension (ii) applies		
Heater voltage (V)	6.3	Note	<u>Pin</u>	<u>Electrode</u>	
Heater current (A)	0.3		1	Metallising	
<u>HEXODE SECTION</u>			2	Heater	
Max. anode voltage (V)	300	A	3	Hexode anode	
Max. screen voltage (V)	100		4	Screen grid (G2/4)	
Max. anode dissipation (W)	1.2		5	Triode control grid and Hexode grid No.3	
Anode current (mA)	2.2		6	Triode anode	
Conversion conductance ($\mu A/V$)	650		7	Heater	
<u>TRIODE SECTION</u>			8	Cathode	
Max. anode voltage (V)	150	A	TC	Hexode control grid	
Max. anode dissipation (W)	1.5		<u>TOP CAP</u>		
<u>CAPACITANCES (pF)</u>			See K1001/AI/D5.2		
Hexode Cag	0.0035		<u>DIMENSIONS</u>		
Hexode Cae	10.0		See K1001/AI/D1		
Hexode Cge	4.8		<u>Dimension</u>	<u>Min.</u>	<u>Max.</u>
Triode Cge	8.4		A mm	-	112
			B mm	-	36

NOTESA. Measured at $V_a=300$, $V_{g2/4}=100$, $V_{g1}=-4$, $V_{ao}=150$, $V_{go}=-3$.

To be performed in addition to those applicable in K1001.

	Test conditions						Tests	Limits		No. tested
								Min.	Max.	
a	See K1001/IIII						Capacitances (pF)			
	Links to H.P.	Links to L.P.	Links to E				(i) Hexode Cag	-	0.0035	T.A.
	3	TC1	1,2,4,5,6,7,8,9,10,TC2				(ii) Hexode Cae	8.7	11.3	6 per week
	3	1,2,4,5,6,7,8	9,10,TC1,TC2				(iii) Hexode Cge	4.0	5.6	
	TC1	1,2,4,5,6,7,8	3,9,10,TC2				(iv) Triode Cge	7.1	9.5	
b	Vh	Va	Vg2/4	Vg1	Vao	Vgo	Ih (A)	0.27	0.33	100% or S
	6.3	-	-	-	-	-				
c	6.3	300	100	0	150	-3	Hex. Ia (mA)	7.0	13.0	100%
d	6.3	300	100	-4	150	-3	Hex. Ia (mA)	1.3	3.2	100%
e	6.3	300	100	-30	150	-3	Hex. Ia (Note 1) (uA)	-	90	100%
f	6.3	300	100	See Note 2	150	-3	Ig2 (mA)	1.35	2.65	100%
g	6.3	300	100	-3	150	-3	Hex. Rev Ig (Note 3) (uA)	-	0.6	100%
h	6.3	300	100	0	150	-3	Triode Ia (mA)	5.5	13.5	100%
j	6.3	300	100	0	150	-13	Triode Ia (mA)	-	1.5	100%
k	6.3	300	100	-3	150	-3	Triode Rev Ig (uA) (Note 3)	-	1.1	100%
l	6.3	30 AC	30 AC	30 AC	-	-	Ie (mA)	45	-	100%
m	6.3	-	-	-	30 AC	30 AC	Ie (mA)	30	-	100%

NOTES

1. Protective resistance of 1 Megohm in series with meter.
2. Cathode resistance of 135 ohms.
3. Protective resistance of 0.1 Megohm.