

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

Specification MOS/CV1347/Issue 6 Dated 21.9.46 To be read in conjunction with K1001	<u>SECURITY</u>	
	<u>Specification</u> Restricted	<u>Valve</u> 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>			Note	<u>BASE</u> I.O	
Heater voltage	(V)	6.3		Pin	Electrode
Heater current	(A)	0.3		1	Metallising
<u>HEXODE SECTION</u>				2	Heater
Max. anode voltage	(V)	300		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	A	6	Triode anode
Conversion conductance (uA/V)		650	A	7	Heater
<u>TRIODE SECTION</u>				8	Cathode
Max. anode voltage	(V)	150		TC	Hexode control grid
Max. anode dissipation	(W)	1.5			
<u>CAPACITANCES (pF)</u>				<u>TOP CAP</u>	
Hexode Cag		0.0035		See K1001/AI/D5.2	
Hexode Cae		10.0		<u>DIMENSIONS</u>	
Hexode Cge		4.8		See K1001/AI/D1	
Triode Cge		8.4		Dimension	Min. Max.
				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/AlII						<u>Capacitances (pF)</u>				
	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								
	3	1,2,4,5, 6,7,8	9,10,TC1, TC2								
	TC1	1,2,4,5, 6,7,8	3,9,10, TC2								
5	1,2,3,4, 7,8,TC1	6,9,10, TC2									
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	(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	(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)	-	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.