

CV2493.

TESTS

To be performed in addition to those applicable in K1001.

	Test Conditions				Test	Limits		No. Tested	Note
	Links to H.P.	Links to L.P.	Links to E			Min.	Max.		
a	6	7	Rest		<u>Capacitances (pF)</u>				
	1	2	Rest		C a' g'	1.2	1.6	6 per week	1
	7	4,5,8,9.	Rest		C a" g"	1.2	1.6		1
	2	3,4,5,9.	Rest		C in'	2.7	3.9		1
	6	4,5,8,9.	Rest		C in"	2.7	3.9		1
	1	3,4,5,9.	Rest		C out'	1.6	2.0		1
					C out"	1.5	1.9		1
b	Vh (V)	Va (b) (V)	Vg (b) (V)	Rk (Ohms)					
	6.3	-	-	-	Ih (mA)	285	350	100%	
c	6.3	-	-	-	<u>Heater-Cathode Insulation Leakage Current</u> (μA)	-	6.0	100%	2
d	6.3	100	9	680	Ia (mA)	14.2	15.8	100%	3
e	6.3	100	9	680	Ig1 (μA)	-	0.1	100%	3
f	6.3	100	9	680	gm (mA/V)	10.5	15.0	100%	3,4
g	6.3	150	-8.5	0	Ia(tail) (mA)	-	0.1	100%	3
h	Vh (V)	Va (b) (V)	Ia (mA)	Rk Ohms	Ra Ohms				
	6.3	196	15	adj	1000	Noise Factor (dB)	-	2.2	See Note 6

NOTES

1. Measured without an external shield.
2. Heater-Cathode leakage current when the heater is 120 volts negative to cathode through a meter-protecting resistance of not greater than 1 Megohm.
3. Test each section separately.
4. Measuring signal on grid not to exceed 100 mV r.m.s.; cathode resistor suitably by-passed.
5. Valves shall be tested at a convenient frequency within the range 40-50 Mc/s in an approved head amplifier (see circuit diagram). The noise factor of the complete unit shall be measured for a bandwidth not exceeding 1 Mc/s. The noise contributed by the second stage shall not exceed 3% of the total noise. The input circuit losses measured at the grid shall not exceed an equivalent conductance of 30 micro-mhos at the test frequency. The transformed source of resistance shall be such that a minimum value of noise factor is obtained for a representative value of this type (approximately 15,000 ohms).
6. This test is to be carried out at Inspection Level I to an A.Q.L. of 4%.

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