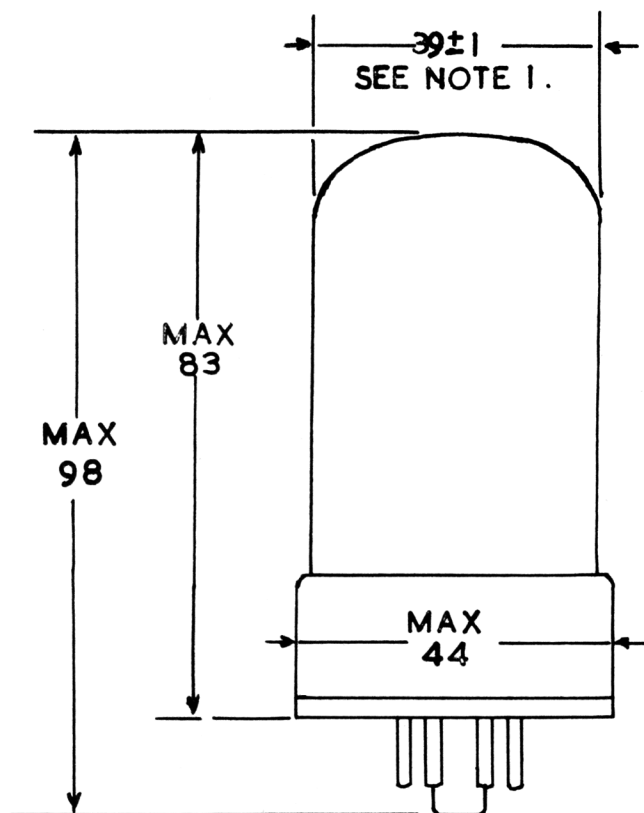


TESTS

To be performed in addition to those applicable in K1001, and in the specified order unless otherwise agreed with the Inspecting Authority.

Test conditions unless otherwise stated.								
	Vh (V)	Va (V)	Vg2 (V)	Ia (mA)				
	6.3	150	150	200				
K1001	Test	Test Condition	AQL %	Insp. Level	Sym- bol	Limits		Units
						Min.	Max.	
→ 7.1	Glass strain	No voltages	6.5	1				
→ 11.1	<u>GROUP A</u> Noise and Microphony.	Frequency = 50c/s Accel: = 2g Va(b) = 200V, Vg2 = 100V, RL = 1.2 k Ω Ia = 100 mA		100%	Va (AC)	-	450	mV(rms)
5.2	Insulation.	Vg1-all = -100V Vg2-all = -500V Va-all = -500V No other voltages		100%	R	60 100 100	- - -	M ohms M ohms M ohms
	Reverse Grid Current.	Vg1 = -60V		100%	Ig1	-	4.0	μ A
	Reverse Grid Current.			100%	Ig1	-	2.0	μ A
	<u>GROUP B</u> Heater Current. Heater Cathode Leakage.	Combined AQL Vhk = 350V (k+ve) Vhk = 150V (k-ve) R lim. = 1 Megohm Max.	1.0 0.65 0.65	II II	Ih Ihk	1.5 -	1.8 40	A μ A
	Negative Grid Voltage.	Vg1 changed by 6V	0.65 0.65	II II	Vg1 Ia	6.5 70	13.0 95	V mA
	Anode Current Rise.	Va = 50V	0.65	II	Ig2	-	40	mA
	Screen Current.	Va = Vg2 = 100V Vg1 = 0	0.65	II	Ia	164	-	mA
	<u>GROUP C</u> Anode Current Tail. Screen Current. Change in Vg2.	Combined AQL Vg1 = -60V Reduce Vg1 by 6V Change Vg2 to maintain Ia = 200mA	6.5 2.5 2.5 2.5	II II II	Ia Ig2 Vg2	- - 27	5.0 19.5 43	mA mA V

K1001	Test	Test Conditions	AQL %	Insp. Level	Sym- bol	Limits		Units
						Min.	Max.	
11.2	<u>GROUP D</u> Resonance Search	Frequency Range = 25 to 500 c/s Accel: 2g min. Va(b) = 200V, Vg2 = 100V RL = 1.2 k Ω Ia = 100 mA Circuit as for noise and micro- phony.	2.5	IC	Va (AC)	-	300	mV(rms) ←
11.3	Fatigue	Frequency 170 c/s Accel: 2.0g min. Duration 100 hrs. divided in 30,30, 39 hrs. Vh 6.9V switched 1 min. on 3 mins. off.		IA				←
	<u>Post Fatigue</u> <u>Tests</u>							
	Noise and Microphony.	Frequency 50 c/s Accel: 2g min. Va(b) = 200V, Vg2 = 100V RL = 1.2 k Ω Ia = 100 mA	6.5		Va (AC)	-	1500	mV(rms) ←
	Heater Cathode Leakage.	Vhk = 350V (k+ve)	2.5		Ihk	-	80	μ A
	Reverse Grid Current.		2.5		Ig1	-	4.0	μ A
	Screen Current		2.5		Ig2	-	19.5	mA
11.4	<u>Shock</u>	Hammer angle 30° 5 shocks in each of four directions			IA			
	<u>Post Shock</u> <u>Tests</u>							
	Noise and Microphony.	Frequency = 50 c/s Accel: 2g min. Va(b) = 200V, Vg2 = 100V RL = 1.2 k Ω Ia = 100 mA	2.5		Va (AC)	-	300	mV(rms) ←
	Heater-Cathode Leakage	Vhk = 350V (k + ve)	2.5		Ihk	-	80	μ A
	Reverse Grid Current.		2.5		Ig1	-	4.0	μ A
	Screen Current.		2.5			-	19.5	mA
A.IX/ 2.5	<u>GROUP E</u> Electrical re- test after 28 days holding period.				100%			
A.VI/ 5.6	Inoperatives Reverse Grid Current		0.5 0.5		Ig1	-	3.0	μ A ←



1. THESE TOLERANCES TO INCLUDE VARIATIONS DUE TO OVALITY AND TAPER.

2. A PARALLEL SIDED BULB IS MANDATORY.

ALL DIMENSIONS ARE IN MILLIMETERS.

SPECIFICATION C.V. 4060 ISSUE 2.

AMENDMENT NO.1.

PAGE 2.

GROUP B

Heater Current

Change minimum from 1.5A to 1.4A.

PAGE 3

GROUP D

Shock Test

Change IA from "Symbol" column to "Insp. Level" column.

Post Shock Test.

Noise and Microphony.

Change AQL from 2.5 to 6.5 and max. from 300 to 1500.

April, 1957.
N.87416

T.V.C. Office
for A.S.R.E.