

Sheet1

<b>OCL amp thermal test.</b> The following were held constant for all tests:					Dates: 2/4/24 to 2/15/24	
	Input RMS voltage: 30mv		Watts: 1.1wpc			
	Output RMS voltage: 3V		DC offset: 47.6mv			
	Gain in decibels: 40dB		Power supply: +/- 18vdc			
Elapsed time in minutes	3DD15D (4) Total current using small heatsinks with no grease or mica pad installed	3DD15D (4) Avg temp on small heatsinks with no grease or mica pad installed	3DD15D (4) Total current using small heatsinks with lots of grease but no mica pad installed	3DD15D (4) Avg temp on small heatsinks with lots of grease but no mica pad installed	2N3055 (4) Total current using big heatsink with lots of grease and mica pad installed	2N3055 (4) Avg temp on big heatsink with lots of grease and mica pad installed
0	440ma	74F	430ma	75F	470ma	74F
1	470ma	80F	470ma	81F	480ma	78.5F
2	510ma	85F	490ma	84F	490ma	81F
3	550ma	90F	530ma	87F	510ma	85F
4	580ma	93F	550ma	93F	510ma	86F
5	620ma	102F	580ma	97F	520ma	87.5F
6	650ma	104F	600ma	98F	530ma	89.5F
7	680ma	107F	620ma	100F	530ma	90F
8	700ma	110F	640ma	104F	530ma	89F
9	730ma	115F	660ma	107F	540ma	92.5F
10	760ma	120F	670ma	110F	540ma	91.5F
11	790ma	122F	680ma	115F	550ma	94F
12	820ma	125F	690ma	117F	550ma	93.5F
13	860ma	130F	710ma	117F	550ma	94.5
14	890ma	130F	720ma	119F	560ma	96F
15	920ma	135F	730ma	118F	560ma	99F
16	950ma	135F	740ma	118F	560ma	99F
17	990ma	140F	750ma	121F	560ma	100F
18	1100ma	150F	760ma	122F	560ma	98F
19	Thermal runaway, quickly		760ma	122F	570ma	99.5F
20	shut down test to avoid damage		770ma	122F	570ma	101F
21			780ma	122F	570ma	101.5F
22			780ma	123F	570ma	100.5F
23			790ma	123F	570ma	101.5F
24			800ma	123F	570ma	101F
25			800ma	126F	570ma	101.5F
26			810ma	126F	570ma	101.5F
27			Current beginning to run away,		570ma	101.5F
28			shut down test to avoid damage		580ma	101.5F
29					580ma	102.5F
30					580ma	102.5F
31					560ma	101.5F
32					560ma	103F
33					570ma	102.5F
34					570ma	102F
35					570ma	101.5F
36					580ma	102.5F
37					580ma	102.5F
38					580ma	102.5F
39					590ma	104F
40					590ma	104F
41					570ma	102F
42					570ma	102.5F
					Temperature & current have stabilized at this point in the test. Looks good!	