



Efficiency Through Technology

**RELIABILITY REPORT
2023**

KXOB and SM product

June 2023

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Published June 2023

Temperature Cycle

Failure modes: Thermal fatigue of silicon-metal and metal-metal interfaces due to heating and cooling, causing thermal and electrical performance degradation.

Humidity Test

Failure Modes: Degradation of electrical leakage characteristics due to moisture penetration into plastic packages.

UV Test

Failure Modes: Degradation of encapsulation material integrity due to high energy UV irradiation, causing electrical performance degradation and encapsulation material delamination.

Weather Test

Failure Modes: Sequential degradation of electrical leakage characteristics and encapsulation material integrity due to the weather condition combined with sequential humidity and UV tests, causing electrical performance degradation and encapsulation material delamination.

Summary of Tables: Temperature Cycle

	Table 1 KXOB & SM discrete device
Total Lots Tested	88
Total Devices Tested	1760
Total Failures	0
Total Device Cycles	887,040

Summary of Tables: Humidity Test

	Table 2 KXOB & SM discrete device
Total Lots Tested	88
Total Devices Tested	1760
Total Failures	0
Total Device Hours	1,760,000

Summary of Tables: UV Test

	Table 3 KXOB & SM discrete device
Total Lots Tested	88
Total Devices Tested	1760
Total Failures	0
Total Device Hours	264,000

Summary of Tables: Weather Test

	Table 4 KXOB & SM discrete device
Total Lots Tested	88
Total Devices Tested	1760
Total Failures	0
Total Device Hours Humidity	105,600
Total Device Hours UV A+B	264,000

TEMPERATURE CYCLE

TABLE 1: KXOB & SM STANDARD PRODUCTS

#	Part Number	Test #	Low Temp. [°C]	High Temp. [°C]	Number of Cycles	Sample Size	Failures	Device Cycles	Remark
1	KXOB25-14X1F	TCS2201	-40	90	504	20	0	10,080	
2	KXOB25-05X3F	TCS2202	-40	90	504	20	0	10,080	
3	KXOB25-02X8F	TCS2203	-40	90	504	20	0	10,080	
4	KXOB25-03X4F	TCS2204	-40	90	504	20	0	10,080	
5	KXOB061K08F	TCS2205	-40	90	504	20	0	10,080	
6	KXOB081K06F	TCS2206	-40	90	504	20	0	10,080	
7	KXOB121K04F	TCS2207	-40	90	504	20	0	10,080	
8	KXOB101K08F	TCS2208	-40	90	504	20	0	10,080	
9	KXOB141K06F	TCS2209	-40	90	504	20	0	10,080	
10	KXOB201K04F	TCS2210	-40	90	504	20	0	10,080	
11	SM101K07L	TCS2211	-40	90	504	20	0	10,080	
12	SM101K09L	TCS2212	-40	90	504	20	0	10,080	
13	SM101K12L	TCS2213	-40	90	504	20	0	10,080	
14	SM141K04L	TCS2214	-40	90	504	20	0	10,080	
15	SM141K04LV	TCS2215	-40	90	504	20	0	10,080	
16	SM141K05L	TCS2216	-40	90	504	20	0	10,080	
17	SM141K06L	TCS2217	-40	90	504	20	0	10,080	
18	SM141K06LV	TCS2218	-40	90	504	20	0	10,080	
19	SM141K07L	TCS2219	-40	90	504	20	0	10,080	
20	SM141K08L	TCS2220	-40	90	504	20	0	10,080	
21	SM141K08LV	TCS2221	-40	90	504	20	0	10,080	
22	SM141K09L	TCS2222	-40	90	504	20	0	10,080	
23	SM141K10L	TCS2223	-40	90	504	20	0	10,080	
24	SM141K10LV	TCS2224	-40	90	504	20	0	10,080	
25	SM262K10L	TCS2225	-40	90	504	20	0	10,080	
26	SM351K09L	TCS2226	-40	90	504	20	0	10,080	
27	SM400K10L	TCS2227	-40	90	504	20	0	10,080	
28	SM500K12L	TCS2228	-40	90	504	20	0	10,080	
29	SM531K08L	TCS2229	-40	90	504	20	0	10,080	
30	SM531K10L	TCS2230	-40	90	504	20	0	10,080	
31	SM531K12L	TCS2231	-40	90	504	20	0	10,080	
32	SM700K10L	TCS2232	-40	90	504	20	0	10,080	
33	SM730K12L	TCS2233	-40	90	504	20	0	10,080	
34	SM850K12L	TCS2234	-40	90	504	20	0	10,080	
35	SM261K05L	TCS2235	-40	90	504	20	0	10,080	
36	SM261K10L	TCS2236	-40	90	504	20	0	10,080	
37	SM401K08L	TCS2237	-40	90	504	20	0	10,080	
38	SM811K04L	TCS2238	-40	90	504	20	0	10,080	
39	SM102K06L	TCS2239	-40	90	504	20	0	10,080	
40	SM641K10L	TCS2240	-40	90	504	20	0	10,080	
41	SM811K08L	TCS2241	-40	90	504	20	0	10,080	
42	SM182K01L	TCS2242	-40	90	504	20	0	10,080	
43	SM281K07L	TCS2243	-40	90	504	20	0	10,080	
44	SM881K04L	TCS2244	-40	90	504	20	0	10,080	

TEMPERATURE CYCLE

TABLE 1: KXOB & SM THIN PRODUCTS

#	Part Number	Test #	Low Temp. [°C]	High Temp. [°C]	Number of Cycles	Sample Size	Failures	Device Cycles	Remark
1	KXOB25-14X1TF	TCT2201	-40	90	504	20	0	10,080	
2	KXOB25-05X3TF	TCT2202	-40	90	504	20	0	10,080	
3	KXOB25-02X8TF	TCT2203	-40	90	504	20	0	10,080	
4	KXOB25-03X4TF	TCT2204	-40	90	504	20	0	10,080	
5	KXOB061K08TF	TCT2205	-40	90	504	20	0	10,080	
6	KXOB081K06TF	TCT2206	-40	90	504	20	0	10,080	
7	KXOB121K04TF	TCT2207	-40	90	504	20	0	10,080	
8	KXOB101K08TF	TCT2208	-40	90	504	20	0	10,080	
9	KXOB141K06TF	TCT2209	-40	90	504	20	0	10,080	
10	KXOB201K04TF	TCT2210	-40	90	504	20	0	10,080	
11	SM101K07TF	TCT2211	-40	90	504	20	0	10,080	
12	SM101K09TF	TCT2212	-40	90	504	20	0	10,080	
13	SM101K12TF	TCT2213	-40	90	504	20	0	10,080	
14	SM141K04TF	TCT2214	-40	90	504	20	0	10,080	
15	SM141K04TFV	TCT2215	-40	90	504	20	0	10,080	
16	SM141K05TF	TCT2216	-40	90	504	20	0	10,080	
17	SM141K06TF	TCT2217	-40	90	504	20	0	10,080	
18	SM141K06TFV	TCT2218	-40	90	504	20	0	10,080	
19	SM141K07TF	TCT2219	-40	90	504	20	0	10,080	
20	SM141K08TF	TCT2220	-40	90	504	20	0	10,080	
21	SM141K08TFV	TCT2221	-40	90	504	20	0	10,080	
22	SM141K09TF	TCT2222	-40	90	504	20	0	10,080	
23	SM141K10TF	TCT2223	-40	90	504	20	0	10,080	
24	SM141K10TFV	TCT2224	-40	90	504	20	0	10,080	
25	SM262K10TF	TCT2225	-40	90	504	20	0	10,080	
26	SM351K09TF	TCT2226	-40	90	504	20	0	10,080	
27	SM400K10TF	TCT2227	-40	90	504	20	0	10,080	
28	SM500K12TF	TCT2228	-40	90	504	20	0	10,080	
29	SM531K08TF	TCT2229	-40	90	504	20	0	10,080	
30	SM531K10TF	TCT2230	-40	90	504	20	0	10,080	
31	SM531K12TF	TCT2231	-40	90	504	20	0	10,080	
32	SM700K10TF	TCT2232	-40	90	504	20	0	10,080	
33	SM730K12TF	TCT2233	-40	90	504	20	0	10,080	
34	SM850K12TF	TCT2234	-40	90	504	20	0	10,080	
35	SM261K05TF	TCT2235	-40	90	504	20	0	10,080	
36	SM261K10TF	TCT2236	-40	90	504	20	0	10,080	
37	SM401K08TF	TCT2237	-40	90	504	20	0	10,080	
38	SM811K04TF	TCT2238	-40	90	504	20	0	10,080	
39	SM102K06TF	TCT2239	-40	90	504	20	0	10,080	
40	SM641K10TF	TCT2240	-40	90	504	20	0	10,080	
41	SM811K08TF	TCT2241	-40	90	504	20	0	10,080	
42	SM182K01TF	TCT2242	-40	90	504	20	0	10,080	
43	SM281K07TF	TCT2243	-40	90	504	20	0	10,080	
44	SM881K04TF	TCT2244	-40	90	504	20	0	10,080	

HUMIDITY TEST

TABLE 2: KXOB & SM STANDARD PRODUCTS

#	Part Number	Test #	Temp. [°C]	Rel. H. [%]	Time [hrs]	Sample Size	Failures	Device Hours [hrs]	Remark
1	KXOB25-14X1F	HTS2201	85	85	1000	20	0	20000	
2	KXOB25-05X3F	HTS2202	85	85	1000	20	0	20000	
3	KXOB25-02X8F	HTS2203	85	85	1000	20	0	20000	
4	KXOB25-03X4F	HTS2204	85	85	1000	20	0	20000	
5	KXOB061K08F	HTS2205	85	85	1000	20	0	20000	
6	KXOB081K06F	HTS2206	85	85	1000	20	0	20000	
7	KXOB121K04F	HTS2207	85	85	1000	20	0	20000	
8	KXOB101K08F	HTS2208	85	85	1000	20	0	20000	
9	KXOB141K06F	HTS2209	85	85	1000	20	0	20000	
10	KXOB201K04F	HTS2210	85	85	1000	20	0	20000	
11	SM101K07L	HTS2211	85	85	1000	20	0	20000	
12	SM101K09L	HTS2212	85	85	1000	20	0	20000	
13	SM101K12L	HTS2213	85	85	1000	20	0	20000	
14	SM141K04L	HTS2214	85	85	1000	20	0	20000	
15	SM141K04LV	HTS2215	85	85	1000	20	0	20000	
16	SM141K05L	HTS2216	85	85	1000	20	0	20000	
17	SM141K06L	HTS2217	85	85	1000	20	0	20000	
18	SM141K06LV	HTS2218	85	85	1000	20	0	20000	
19	SM141K07L	HTS2219	85	85	1000	20	0	20000	
20	SM141K08L	HTS2220	85	85	1000	20	0	20000	
21	SM141K08LV	HTS2221	85	85	1000	20	0	20000	
22	SM141K09L	HTS2222	85	85	1000	20	0	20000	
23	SM141K10L	HTS2223	85	85	1000	20	0	20000	
24	SM141K10LV	HTS2224	85	85	1000	20	0	20000	
25	SM262K10L	HTS2225	85	85	1000	20	0	20000	
26	SM351K09L	HTS2226	85	85	1000	20	0	20000	
27	SM400K10L	HTS2227	85	85	1000	20	0	20000	
28	SM500K12L	HTS2228	85	85	1000	20	0	20000	
29	SM531K08L	HTS2229	85	85	1000	20	0	20000	
30	SM531K10L	HTS2230	85	85	1000	20	0	20000	
31	SM531K12L	HTS2231	85	85	1000	20	0	20000	
32	SM700K10L	HTS2232	85	85	1000	20	0	20000	
33	SM730K12L	HTS2233	85	85	1000	20	0	20000	
34	SM850K12L	HTS2234	85	85	1000	20	0	20000	
35	SM261K05L	HTS2235	85	85	1000	20	0	20000	
36	SM261K10L	HTS2236	85	85	1000	20	0	20000	
37	SM401K08L	HTS2237	85	85	1000	20	0	20000	
38	SM811K04L	HTS2238	85	85	1000	20	0	20000	
39	SM102K06L	HTS2239	85	85	1000	20	0	20000	
40	SM641K10L	HTS2240	85	85	1000	20	0	20000	
41	SM811K08L	HTS2241	85	85	1000	20	0	20000	
42	SM182K01L	HTS2242	85	85	1000	20	0	20000	
43	SM281K07L	HTS2243	85	85	1000	20	0	20000	
44	SM881K04L	HTS2244	85	85	1000	20	0	20000	

HUMIDITY TEST

TABLE 2: KXOB & SM THIN PRODUCTS

#	Part Number	Test #	Temp. [°C]	Rel. H. [%]	Time [hrs]	Sample Size	Failures	Device Hours [hrs]	Remark
1	KXOB25-14X1TF	HTT2201	85	85	1000	20	0	20000	
2	KXOB25-05X3TF	HTT2202	85	85	1000	20	0	20000	
3	KXOB25-02X8TF	HTT2203	85	85	1000	20	0	20000	
4	KXOB25-03X4TF	HTT2204	85	85	1000	20	0	20000	
5	KXOB061K08TF	HTT2205	85	85	1000	20	0	20000	
6	KXOB081K06TF	HTT2206	85	85	1000	20	0	20000	
7	KXOB121K04TF	HTT2207	85	85	1000	20	0	20000	
8	KXOB101K08TF	HTT2208	85	85	1000	20	0	20000	
9	KXOB141K06TF	HTT2209	85	85	1000	20	0	20000	
10	KXOB201K04TF	HTT2210	85	85	1000	20	0	20000	
11	SM101K07TF	HTT2211	85	85	1000	20	0	20000	
12	SM101K09TF	HTT2212	85	85	1000	20	0	20000	
13	SM101K12TF	HTT2213	85	85	1000	20	0	20000	
14	SM141K04TF	HTT2214	85	85	1000	20	0	20000	
15	SM141K04TFV	HTT2215	85	85	1000	20	0	20000	
16	SM141K05TF	HTT2216	85	85	1000	20	0	20000	
17	SM141K06TF	HTT2217	85	85	1000	20	0	20000	
18	SM141K06TFV	HTT2218	85	85	1000	20	0	20000	
19	SM141K07TF	HTT2219	85	85	1000	20	0	20000	
20	SM141K08TF	HTT2220	85	85	1000	20	0	20000	
21	SM141K08TFV	HTT2221	85	85	1000	20	0	20000	
22	SM141K09TF	HTT2222	85	85	1000	20	0	20000	
23	SM141K10TF	HTT2223	85	85	1000	20	0	20000	
24	SM141K10TFV	HTT2224	85	85	1000	20	0	20000	
25	SM262K10TF	HTT2225	85	85	1000	20	0	20000	
26	SM351K09TF	HTT2226	85	85	1000	20	0	20000	
27	SM400K10TF	HTT2227	85	85	1000	20	0	20000	
28	SM500K12TF	HTT2228	85	85	1000	20	0	20000	
29	SM531K08TF	HTT2229	85	85	1000	20	0	20000	
30	SM531K10TF	HTT2230	85	85	1000	20	0	20000	
31	SM531K12TF	HTT2231	85	85	1000	20	0	20000	
32	SM700K10TF	HTT2232	85	85	1000	20	0	20000	
33	SM730K12TF	HTT2233	85	85	1000	20	0	20000	
34	SM850K12TF	HTT2234	85	85	1000	20	0	20000	
35	SM261K05TF	HTT2235	85	85	1000	20	0	20000	
36	SM261K10TF	HTT2236	85	85	1000	20	0	20000	
37	SM401K08TF	HTT2237	85	85	1000	20	0	20000	
38	SM811K04TF	HTT2238	85	85	1000	20	0	20000	
39	SM102K06TF	HTT2239	85	85	1000	20	0	20000	
40	SM641K10TF	HTT2240	85	85	1000	20	0	20000	
41	SM811K08TF	HTT2241	85	85	1000	20	0	20000	
42	SM182K01TF	HTT2242	85	85	1000	20	0	20000	
43	SM281K07TF	HTT2243	85	85	1000	20	0	20000	
44	SM881K04TF	HTT2244	85	85	1000	20	0	20000	

UV TEST

TABLE 3: KXOB & SM STANDARD PRODUCTS

#	Part Number	Test #	Temp. [°C]	UV A+B [mW/cm ²]	Time [hrs]	Sample Size	Failures	Device Hours [hrs]	Remark
1	KXOB25-14X1F	UVS2201	85	60	150	20	0	3000	
2	KXOB25-05X3F	UVS2202	85	60	150	20	0	3000	
3	KXOB25-02X8F	UVS2203	85	60	150	20	0	3000	
4	KXOB25-03X4F	UVS2204	85	60	150	20	0	3000	
5	KXOB061K08F	UVS2205	85	60	150	20	0	3000	
6	KXOB081K06F	UVS2206	85	60	150	20	0	3000	
7	KXOB121K04F	UVS2207	85	60	150	20	0	3000	
8	KXOB101K08F	UVS2208	85	60	150	20	0	3000	
9	KXOB141K06F	UVS2209	85	60	150	20	0	3000	
10	KXOB201K04F	UVS2210	85	60	150	20	0	3000	
11	SM101K07L	UVS2211	85	60	150	20	0	3000	
12	SM101K09L	UVS2212	85	60	150	20	0	3000	
13	SM101K12L	UVS2213	85	60	150	20	0	3000	
14	SM141K04L	UVS2214	85	60	150	20	0	3000	
15	SM141K04LV	UVS2215	85	60	150	20	0	3000	
16	SM141K05L	UVS2216	85	60	150	20	0	3000	
17	SM141K06L	UVS2217	85	60	150	20	0	3000	
18	SM141K06LV	UVS2218	85	60	150	20	0	3000	
19	SM141K07L	UVS2219	85	60	150	20	0	3000	
20	SM141K08L	UVS2220	85	60	150	20	0	3000	
21	SM141K08LV	UVS2221	85	60	150	20	0	3000	
22	SM141K09L	UVS2222	85	60	150	20	0	3000	
23	SM141K10L	UVS2223	85	60	150	20	0	3000	
24	SM141K10LV	UVS2224	85	60	150	20	0	3000	
25	SM262K10L	UVS2225	85	60	150	20	0	3000	
26	SM351K09L	UVS2226	85	60	150	20	0	3000	
27	SM400K10L	UVS2227	85	60	150	20	0	3000	
28	SM500K12L	UVS2228	85	60	150	20	0	3000	
29	SM531K08L	UVS2229	85	60	150	20	0	3000	
30	SM531K10L	UVS2230	85	60	150	20	0	3000	
31	SM531K12L	UVS2231	85	60	150	20	0	3000	
32	SM700K10L	UVS2232	85	60	150	20	0	3000	
33	SM730K12L	UVS2233	85	60	150	20	0	3000	
34	SM850K12L	UVS2234	85	60	150	20	0	3000	
35	SM261K05L	UVS2235	85	60	150	20	0	3000	
36	SM261K10L	UVS2236	85	60	150	20	0	3000	
37	SM401K08L	UVS2237	85	60	150	20	0	3000	
38	SM811K04L	UVS2238	85	60	150	20	0	3000	
39	SM102K06L	UVS2239	85	60	150	20	0	3000	
40	SM641K10L	UVS2240	85	60	150	20	0	3000	
41	SM811K08L	UVS2241	85	60	150	20	0	3000	
42	SM182K01L	UVS2242	85	60	150	20	0	3000	
43	SM281K07L	UVS2243	85	60	150	20	0	3000	
44	SM881K04L	UVS2244	85	60	150	20	0	3000	

UV TEST

TABLE 3: KXOB & SM THIN PRODUCTS

#	Part Number	Test #	Temp. [°C]	UV A+B [mW/cm ²]	Time [hrs]	Sample Size	Failures	Device Hours [hrs]	Remark
1	KXOB25-14X1TF	UVT2201	85	60	150	20	0	3000	
2	KXOB25-05X3TF	UVT2202	85	60	150	20	0	3000	
3	KXOB25-02X8TF	UVT2203	85	60	150	20	0	3000	
4	KXOB25-03X4TF	UVT2204	85	60	150	20	0	3000	
5	KXOB061K08TF	UVT2205	85	60	150	20	0	3000	
6	KXOB081K06TF	UVT2206	85	60	150	20	0	3000	
7	KXOB121K04TF	UVT2207	85	60	150	20	0	3000	
8	KXOB101K08TF	UVT2208	85	60	150	20	0	3000	
9	KXOB141K06TF	UVT2209	85	60	150	20	0	3000	
10	KXOB201K04TF	UVT2210	85	60	150	20	0	3000	
11	SM101K07TF	UVT2211	85	60	150	20	0	3000	
12	SM101K09TF	UVT2212	85	60	150	20	0	3000	
13	SM101K12TF	UVT2213	85	60	150	20	0	3000	
14	SM141K04TF	UVT2214	85	60	150	20	0	3000	
15	SM141K04TFV	UVT2215	85	60	150	20	0	3000	
16	SM141K05TF	UVT2216	85	60	150	20	0	3000	
17	SM141K06TF	UVT2217	85	60	150	20	0	3000	
18	SM141K06TFV	UVT2218	85	60	150	20	0	3000	
19	SM141K07TF	UVT2219	85	60	150	20	0	3000	
20	SM141K08TF	UVT2220	85	60	150	20	0	3000	
21	SM141K08TFV	UVT2221	85	60	150	20	0	3000	
22	SM141K09TF	UVT2222	85	60	150	20	0	3000	
23	SM141K10TF	UVT2223	85	60	150	20	0	3000	
24	SM141K10TFV	UVT2224	85	60	150	20	0	3000	
25	SM262K10TF	UVT2225	85	60	150	20	0	3000	
26	SM351K09TF	UVT2226	85	60	150	20	0	3000	
27	SM400K10TF	UVT2227	85	60	150	20	0	3000	
28	SM500K12TF	UVT2228	85	60	150	20	0	3000	
29	SM531K08TF	UVT2229	85	60	150	20	0	3000	
30	SM531K10TF	UVT2230	85	60	150	20	0	3000	
31	SM531K12TF	UVT2231	85	60	150	20	0	3000	
32	SM700K10TF	UVT2232	85	60	150	20	0	3000	
33	SM730K12TF	UVT2233	85	60	150	20	0	3000	
34	SM850K12TF	UVT2234	85	60	150	20	0	3000	
35	SM261K05TF	UVT2235	85	60	150	20	0	3000	
36	SM261K10TF	UVT2236	85	60	150	20	0	3000	
37	SM401K08TF	UVT2237	85	60	150	20	0	3000	
38	SM811K04TF	UVT2238	85	60	150	20	0	3000	
39	SM102K06TF	UVT2239	85	60	150	20	0	3000	
40	SM641K10TF	UVT2240	85	60	150	20	0	3000	
41	SM811K08TF	UVT2241	85	60	150	20	0	3000	
42	SM182K01TF	UVT2242	85	60	150	20	0	3000	
43	SM281K07TF	UVT2243	85	60	150	20	0	3000	
44	SM881K04TF	UVT2244	85	60	150	20	0	3000	

Weather TEST

TABLE 4: KXOB & SM STANDARD PRODUCTS

#	Part Number	Test #	Temp [°C]	Rel. H. [%]	Humidity Time [hrs]	UV A+B [mW/cm]	UV A+B Time [hrs]	Sample Size	Failures	Humidity D.Hs [hrs]	UV A+B D.Hs [hrs]	Remark
1	KXOB25-14X1F	WTS2201	85	85	60	60	150	20	0	1200	3000	
2	KXOB25-05X3F	WTS2202	85	85	60	60	150	20	0	1200	3000	
3	KXOB25-02X8F	WTS2203	85	85	60	60	150	20	0	1200	3000	
4	KXOB25-03X4F	WTS2204	85	85	60	60	150	20	0	1200	3000	
5	KXOB061K08F	WTS2205	85	85	60	60	150	20	0	1200	3000	
6	KXOB081K06F	WTS2206	85	85	60	60	150	20	0	1200	3000	
7	KXOB121K04F	WTS2207	85	85	60	60	150	20	0	1200	3000	
8	KXOB101K08F	WTS2208	85	85	60	60	150	20	0	1200	3000	
9	KXOB141K06F	WTS2209	85	85	60	60	150	20	0	1200	3000	
10	KXOB201K04F	WTS2210	85	85	60	60	150	20	0	1200	3000	
11	SM101K07L	WTS2211	85	85	60	60	150	20	0	1200	3000	
12	SM101K09L	WTS2212	85	85	60	60	150	20	0	1200	3000	
13	SM101K12L	WTS2213	85	85	60	60	150	20	0	1200	3000	
14	SM141K04L	WTS2214	85	85	60	60	150	20	0	1200	3000	
15	SM141K04LV	WTS2215	85	85	60	60	150	20	0	1200	3000	
16	SM141K05L	WTS2216	85	85	60	60	150	20	0	1200	3000	
17	SM141K06L	WTS2217	85	85	60	60	150	20	0	1200	3000	
18	SM141K06LV	WTS2218	85	85	60	60	150	20	0	1200	3000	
19	SM141K07L	WTS2219	85	85	60	60	150	20	0	1200	3000	
20	SM141K08L	WTS2220	85	85	60	60	150	20	0	1200	3000	
21	SM141K08LV	WTS2221	85	85	60	60	150	20	0	1200	3000	
22	SM141K09L	WTS2222	85	85	60	60	150	20	0	1200	3000	
23	SM141K10L	WTS2223	85	85	60	60	150	20	0	1200	3000	
24	SM141K10LV	WTS2224	85	85	60	60	150	20	0	1200	3000	
25	SM262K10L	WTS2225	85	85	60	60	150	20	0	1200	3000	
26	SM351K09L	WTS2226	85	85	60	60	150	20	0	1200	3000	
27	SM400K10L	WTS2227	85	85	60	60	150	20	0	1200	3000	
28	SM500K12L	WTS2228	85	85	60	60	150	20	0	1200	3000	
29	SM531K08L	WTS2229	85	85	60	60	150	20	0	1200	3000	
30	SM531K10L	WTS2230	85	85	60	60	150	20	0	1200	3000	
31	SM531K12L	WTS2231	85	85	60	60	150	20	0	1200	3000	
32	SM700K10L	WTS2232	85	85	60	60	150	20	0	1200	3000	
33	SM730K12L	WTS2233	85	85	60	60	150	20	0	1200	3000	
34	SM850K12L	WTS2234	85	85	60	60	150	20	0	1200	3000	
35	SM261K05L	WTS2235	85	85	60	60	150	20	0	1200	3000	
36	SM261K10L	WTS2236	85	85	60	60	150	20	0	1200	3000	
37	SM401K08L	WTS2237	85	85	60	60	150	20	0	1200	3000	
38	SM811K04L	WTS2238	85	85	60	60	150	20	0	1200	3000	
39	SM102K06L	WTS2239	85	85	60	60	150	20	0	1200	3000	
40	SM641K10L	WTS2240	85	85	60	60	150	20	0	1200	3000	
41	SM811K08L	WTS2241	85	85	60	60	150	20	0	1200	3000	
42	SM182K01L	WTS2242	85	85	60	60	150	20	0	1200	3000	
43	SM281K07L	WTS2243	85	85	60	60	150	20	0	1200	3000	
44	SM881K04L	WTS2244	85	85	60	60	150	20	0	1200	3000	

Weather TEST

TABLE 4: KXOB & SM THIN PRODUCTS

#	Part Number	Test #	Temp [°C]	Rel. H. [%]	Humidity Time [hrs]	UV A+B [mW/cm]	UV A+B Time [hrs]	Sample Size	Failures	Humidity D.Hs [hrs]	UV A+B D.Hs [hrs]	Remark
1	KXOB25-14X1TF	WTT2201	85	85	60	60	150	20	0	1200	3000	
2	KXOB25-05X3TF	WTT2202	85	85	60	60	150	20	0	1200	3000	
3	KXOB25-02X8TF	WTT2203	85	85	60	60	150	20	0	1200	3000	
4	KXOB25-03X4TF	WTT2204	85	85	60	60	150	20	0	1200	3000	
5	KXOB061K08TF	WTT2205	85	85	60	60	150	20	0	1200	3000	
6	KXOB081K06TF	WTT2206	85	85	60	60	150	20	0	1200	3000	
7	KXOB121K04TF	WTT2207	85	85	60	60	150	20	0	1200	3000	
8	KXOB101K08TF	WTT2208	85	85	60	60	150	20	0	1200	3000	
9	KXOB141K06TF	WTT2209	85	85	60	60	150	20	0	1200	3000	
10	KXOB201K04TF	WTT2210	85	85	60	60	150	20	0	1200	3000	
11	SM101K07TF	WTT2211	85	85	60	60	150	20	0	1200	3000	
12	SM101K09TF	WTT2212	85	85	60	60	150	20	0	1200	3000	
13	SM101K12TF	WTT2213	85	85	60	60	150	20	0	1200	3000	
14	SM141K04TF	WTT2214	85	85	60	60	150	20	0	1200	3000	
15	SM141K04TFV	WTT2215	85	85	60	60	150	20	0	1200	3000	
16	SM141K05TF	WTT2216	85	85	60	60	150	20	0	1200	3000	
17	SM141K06TF	WTT2217	85	85	60	60	150	20	0	1200	3000	
18	SM141K06TFV	WTT2218	85	85	60	60	150	20	0	1200	3000	
19	SM141K07TF	WTT2219	85	85	60	60	150	20	0	1200	3000	
20	SM141K08TF	WTT2220	85	85	60	60	150	20	0	1200	3000	
21	SM141K08TFV	WTT2221	85	85	60	60	150	20	0	1200	3000	
22	SM141K09TF	WTT2222	85	85	60	60	150	20	0	1200	3000	
23	SM141K10TF	WTT2223	85	85	60	60	150	20	0	1200	3000	
24	SM141K10TFV	WTT2224	85	85	60	60	150	20	0	1200	3000	
25	SM262K10TF	WTT2225	85	85	60	60	150	20	0	1200	3000	
26	SM351K09TF	WTT2226	85	85	60	60	150	20	0	1200	3000	
27	SM400K10TF	WTT2227	85	85	60	60	150	20	0	1200	3000	
28	SM500K12TF	WTT2228	85	85	60	60	150	20	0	1200	3000	
29	SM531K08TF	WTT2229	85	85	60	60	150	20	0	1200	3000	
30	SM531K10TF	WTT2230	85	85	60	60	150	20	0	1200	3000	
31	SM531K12TF	WTT2231	85	85	60	60	150	20	0	1200	3000	
32	SM700K10TF	WTT2232	85	85	60	60	150	20	0	1200	3000	
33	SM730K12TF	WTT2233	85	85	60	60	150	20	0	1200	3000	
34	SM850K12TF	WTT2234	85	85	60	60	150	20	0	1200	3000	
35	SM261K05TF	WTT2235	85	85	60	60	150	20	0	1200	3000	
36	SM261K10TF	WTT2236	85	85	60	60	150	20	0	1200	3000	
37	SM401K08TF	WTT2237	85	85	60	60	150	20	0	1200	3000	
38	SM811K04TF	WTT2238	85	85	60	60	150	20	0	1200	3000	
39	SM102K06TF	WTT2239	85	85	60	60	150	20	0	1200	3000	
40	SM641K10TF	WTT2240	85	85	60	60	150	20	0	1200	3000	
41	SM811K08TF	WTT2241	85	85	60	60	150	20	0	1200	3000	
42	SM182K01TF	WTT2242	85	85	60	60	150	20	0	1200	3000	
43	SM281K07TF	WTT2243	85	85	60	60	150	20	0	1200	3000	
44	SM881K04TF	WTT2244	85	85	60	60	150	20	0	1200	3000	