12

Life Test Data – Paper (2x.66 Mil) Capacitors
Test Conditions, Tan δ, Capacitance, Failure Times

Test Started 3-22-73

Temp, °C	R.T.	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Voltage	600	870	870	870	870	870	870	870	870	870	870	900	930	960
Time, hrs	0	139	307	475	715	883	1051	1196	1364	1554	1698	158	168	168
1X Treated														
44% (25% TXS (P.P.B. #4) + 75% MCS 1342) + 56% dist. H230L + 0.3% Unox 221 (Fr #2, 1-15-73) (Imp. 1-26-73)														
Capacitors														
#1	.00353	.00312	.00305	.00302	.00298	.00298	.00296	.00294	.00292	.00292	.00291	.00289	.00289	.00294
(mfd)	1.986	1.864	1.864	1.863	1.863	1.861	1.862	1.864	1.864	1.866	1.866	1.864	1.864	1.865
#2	.00370	.00330	.00325	.00323	.00321	.00321	.00318	.00315	.00314	.00313	.00312	.00309	.00308	.00311
(mfd)	1.963	1.837	1.837	1.837	1.837	1.835	1.835	1.838	1.838	1.840	1.840	1.838	1.837	1.838
#3	.00357	.00330	.00325	.00322	.00319	.00319	.00318	.00315	.00314	.00313	.00313			
(mfd)	1.958	1.843	1.842	1.842	1.842	1.840	1.840	1.842	1.843	1.844	1.844	147.5 hrs.		
#4	.00364	.00339	.00331	.00329	.00322	.00321	.00320	.00318	.00319	.00316	.00315	.00311	.00311	.00316
(mfd)	1.961	1.845	1.845	1.846	1.847	1.847	1.848	1.852	1.852	1.853	1.854	1.852	1.852	1.852
#5	.00350	.00334	.00327	.00323	.00321	.00320	.00318	.00314	.00315	.00313	.00312	.00309	.00309	.00314
(mfd)	1.980	1.861	1.860	1.860	1.860	1.858	1.858	1.860	1.861	1.863	1.863	1.861	1.860	1.861
#6	.00348	.00340	.00334	.00333	.00331	.00332	.00331	.00330	.00329	.00329	.00327	.00323	.00323	.00325
(mfd)	1.963	1.851	1.850	1.849	1.849	1.847	1.848	1.850	1.850	1.852	1.852	1.850	1.849	1.850
#7	.00356	.00343	.00337	.00336	.00333	.00336	.00333	.00331	.00330	.00329	.00328	.00324	.00323	.00326
(mfd)	1.960	1.845	1.845	1.844	1.844	1.842	1.842	1.844	1.844	1.846	1.846	1.844	1.844	1.845
#8	.00355	.00343	.00337	.00334	.00332	.00330	.00328	.00325	.00324	.00323	.00323	.00319	.00319	.00323
(mfd)	1.964	1.851	1.850	1.850	1.850	1.848	1.848	1.850	1.850	1.852	1.852	1.850	1.850	1.851
Avg.	.00357	.00334	.00328	.00325	.00322	.00322	.00320	.00318	.00317	.00316	.00315	.00312	.00312	.00316
(mfd)	1.967	1.850	1.849	1.849	1.849	1.847	1.848	1.850	1.850	1.852	1.852	1.851	1.851	1.852

DSW 283933

STLCOPCB4065352

Life Test Data – Paper (2x.66Mil) Capacitors
Test Conditions, Tan δ, Capacitance, Failure Times

Page 2
Test Started 3-22-73

Temp, °C	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Voltage	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Time, hrs	168	336	504	672	826	994	1162	1330	1498	1694	1838	2006	2174	2342	2510

1X Treated 41%
(25% 7X5 (PPG #4) + 75%
MCS 1842) + 56% dist.
H230L
+0.3% Unox 221 (Fr #3, 1-15-73)
(Temp. 1-26-73)

Capacitance

#1	.00287	.00293	.00292	.00292	.00293	.00293	.00293	.00293	.00294	.00295	.00297	.00297	.00297	.00298	.00298
(μfd)	1.864	1.864	1.864	1.864	1.867	1.866	1.866	1.866	1.866	1.866	1.866	1.866	1.866	1.866	1.866
#2	.00304	.00307	.00306	.00306	.00307	.00305	.00305	.00305	.00305	.00305	.00306	.00308	.00308	.00308	.00308
(μfd)	1.837	1.836	1.836	1.836	1.839	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838	1.838
#4	.00315	.00316	.00314	.00314	.00314	.00313	.00313	.00312	.00312	.00313	.00315	.00315	.00315	.00315	.00315
(μfd)	1.852	1.852	1.853	1.853	1.855	1.855	1.856	1.856	1.856	1.857	1.857	1.857	1.857	1.858	1.858
#5	.00309	.00312	.00312	.00313	.00313	.00313	.00313	.00311	.00313	.00314	.00316	.00317	.00317	.00314	.00318
(μfd)	1.861	1.860	1.860	1.861	1.863	1.862	1.862	1.862	1.863	1.863	1.862	1.862	1.862	1.862	1.862
#6	.00321	.00324	.00324	.00324	.00323	.00323	.00323	.00321	.00321	.00322	.00325	.00325	.00325	.00325	.00325
(μfd)	1.849	1.849	1.849	1.849	1.851	1.850	1.850	1.850	1.851	1.851	1.850	1.851	1.851	1.851	1.851
#7	.00325	.00324	.00324	.00324	.00324	.00325	.00324	.00324	.00324	.00325	.00326	.00328	.00327	.00327	.00328
(μfd)	1.844	1.843	1.844	1.844	1.846	1.845	1.845	1.845	1.845	1.846	1.845	1.845	1.845	1.845	1.845
#8	.00320	.00322	.00322	.00322	.00323	.00323	.00322	.00322	.00322	.00323	.00324	.00325	.00325	.00325	.00325
(μfd)	1.850	1.850	1.850	1.850	1.852	1.851	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852	1.852
Avg	.00312	.00314	.00313	.00313	.00314	.00314	.00313	.00313	.00313	.00314	.00316	.00316	.00316	.00316	.00317
(μfd)	1.851	1.851	1.851	1.851	1.853	1.852	1.853	1.853	1.853	1.856	1.853	1.853	1.853	1.853	1.853

DSW 283934
STLCOPCB4065353

Life Test Data – Paper (2x.66 Mil) Capacitors

Test Conditions, Tan δ, Capacitance, Failure Times

Page 3

Test Started 3-22-73

Temp, °C	90°	90°
Voltage	1000	1000
Time, hrs	2678	2846

1x treated 44%
[25% TXS (P,R,Ba #4)
+ 75% MCS 1342]
+ 56% dist. H230L
+ 0.3% Uno x 221 (Fr #2, 1-15-73)
(Imp 1-26-73)

Capacitors

#1 (ufd)	.00298 1.866	.00300 1.866
#2 (ufd)	.00308 1.838	.00310 1.838
#4 (ufd)	.00315 1.858	.00315 1.858
#5 (ufd)	.00318 1.862	.00320 1.862
#6 (ufd)	.00324 1.851	.00325 1.850
#7 (ufd)	.00329 1.845	.00330 1.845
#8 (ufd)	.00325 1.852	.00326 1.852
Avg. (ufd)	.00317 1.853	.00318 1.853

DSW 283935

STLCOPCB4065354