Life Test Data — Paper (2x.66Mil) 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°	90°
Voltage	600	870	870	870	870	870	870	870	870	870	870	900	930	960	
Time, hrs	0	139	307	475	715	883	1050	1196	1364	1554	1698	158	168	168	
1X Treated S-711 +0.3% Unox 221 (Composite) (Imp 1-9-73)															
Capacitors															
#1	.00323	.00280	.00276	.00273	.00268	.00267	.00267	.00264	.00264	.00263	.00262	.00261	.00261	.00263	
(mfd)	1.775	1.668	1.667	1.667	1.667	1.665	1.665	1.667	1.667	1.669	1.669	1.668	1.667	1.668	
#2	.00311	.00282	.00276	.00274	.00273	.00277	.00271	.00268	.00267	.00266	.00265				
(mfd)	1.794	1.671	1.670	1.670	1.670	1.668	1.669	1.671	1.671	1.673	1.673	147.5 hrs			
#3	.00314	.00290	.00285	.00287	.00280	.00285	.00287	.00277	.00277	.00281	.00276	.00279	.00276	.00281	
(mfd)	1.784	1.664	1.664	1.664	1.664	1.662	1.662	1.665	1.665	1.667	1.667	1.666	1.665	1.666	
#4	.00319	.00295	.00289	.00291	.00287	.00290	.00286	.00284	.00283	.00283	.00282	.00282	.00283	.00285	
(mfd)	1.784	1.673	1.676	1.679	1.682	1.684	1.685	1.689	1.690	1.691	1.691	1.689	1.689	1.687	
#5	.00312	.00297	.00292	.00289	.00286	.00285	.00285	.00283	.00282	.00281	.00281	.00281	.00283	.00287	
(mfd)	1.789	1.669	1.668	1.668	1.668	1.667	1.667	1.669	1.669	1.671	1.671	1.669	1.668	1.669	
#6	.00320	.00302	.00297	.00294	.00291	.00289	.00289	.00286	.00285	.00284	.00283	.00281	.00283	.00285	
(mfd)	1.767	1.660	1.659	1.659	1.659	1.657	1.658	1.659	1.659	1.661	1.661	1.660	1.659	1.660	
#7	.00314	.00319	.00297	.00296	.00308	.00293	.00291	.00288	.00286	.00287	.00286	.00284	.00285	.00288	
(mfd)	1.796	1.682	1.681	1.681	1.681	1.679	1.680	1.682	1.682	1.684	1.684	1.683	1.682	1.683	
#8	.00314	.00303	.00296	.00294	.00291	.00290	.00280	.00288	.00286	.00287	.00286	.00284	.00286	.00289	
(mfd)	1.790	1.676	1.676	1.676	1.675	1.673	1.674	1.676	1.676	1.678	1.678	1.677	1.675	1.677	
Avg.	.00316	.00296	.00289	.00287	.00286	.00284	.00282	.00280	.00279	.00279	.00278	.00279	.00280	.00282	
(mfd)	1.785	1.670	1.670	1.670	1.671	1.669	1.670	1.672	1.672	1.674	1.674	1.673	1.672	1.673	

DSW 283930

STLCOPCB4065349

Life Test Data — Paper (2x.65 Mil) Capacitors
Test Conditions, Tan δ, Capacitance, Failure Times

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 S 711

+0.3% Unox 221 (Composite)

(Imp. 1-9-73)

Capacitors

#1	.00261	.00206	.00263	.00264	.00264	.00263	.00263	.00261	.00263	.00262	.00263	.00263	.00262	.00263	.00263
(ufd)	1.667	1.667	1.667	1.667	1.669	1.668	1.668	1.668	1.669	1.669	1.668	1.668	1.668	1.668	1.668
#3	.00289	.00222	.00282	.00283	.00284	.00283	.00284	.00284	.00291	.00284	.00286	.00286	.00285	.00286	.00286
(ufd)	1.665	1.664	1.664	1.665	1.667	1.666	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667	1.667
#4	.00291	.00289	.00292	.00288	.00289	.00288	.00288	.00289	.00290	.00289	.00291	.00291	.00292	.00292	.00293
(ufd)	1.688	1.687	1.687	1.687	1.688	1.688	1.688	1.688	1.689	1.689	1.689	1.689	1.689	1.689	1.689
#5	.00286	.00289	.00289	.00289	.00290	.00290	.00290	.00291	.00291	.00292	.00293	.00292	.00294	.00294	.00294
(ufd)	1.668	1.668	1.668	1.668	1.671	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670	1.670
#6	.00286	.00286	.00285	.00285	.00285	.00285	.00285	.00284	.00284	.00285	.00286	.00287	.00286	.00286	.00287
(ufd)	1.659	1.659	1.659	1.659	1.662	1.660	1.660	1.660	1.661	1.661	1.660	1.661	1.661	1.661	1.661
#7	.00286	.00289	.00290	.00289	.00289	.00288	.00288	.00288	.00288	.00288	.00290	.00289	.00289	.00289	.00290
(ufd)	1.682	1.682	1.682	1.682	1.685	1.684	1.684	1.684	1.684	1.685	1.684	1.684	1.684	1.684	1.684
#8	.00290	.00289	.00290	.00290	.00290	.00290	.00290	.00290	.00290	.00291	.00292	.00293	.00292	.00293	.00292
(ufd)	1.676	1.675	1.676	1.676	1.678	1.677	1.677	1.677	1.678	1.678	1.677	1.678	1.678	1.678	1.678
Avg.	.00284	.00267	.00284	.00284	.00284	.00284	.00284	.00284	.00285	.00284	.00286	.00286	.00286	.00286	.00286
(ufd)	1.672	1.672	1.672	1.672	1.674	1.673	1.673	1.673	1.674	1.674	1.674	1.674	1.674	1.674	1.674

DSW 283931

STLCOPCB4065350

Life Test Data – Paper (2x166 Mil) Capacitors

Test Conditions, Tan δ, Capacitance, Failure Times

Test Started 3-22-73

Temp, °C	90°	90°
Voltage	1000	1000
Time, hrs	2678	2846
1X treated S-711 +0.3% Chlorox 221 (Composite Fro.) (Imp. 1-9-73)		
Capacitors		
#1	.00263	.00261
(ufd)	1.668	1.669
#3	.00286	.00284
(ufd)	1.668	1.668
#4	.00293	.00292
(ufd)	1.689	1.689
#5	.00295	.00293
(ufd)	1.670	1.670
#6	.00287	.00286
(ufd)	1.661	1.661
#7	.00289	.00288
(ufd)	1.684	1.684
#8	.00293	.00291
(ufd)	1.678	1.678
Avg	.00286	.00285
(ufd)	1.674	1.674

DSW 283932

STLCOPCB4065351