Life Test Data – Paper (2x.66Mil) Capacitors — Page 1

Test Conditions, Tan δ, Capacitance, Failure Times — Test Started 4-25-73

Temp, °C	RT	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
Voltage	600	870	870	870	870	870	870	900	930	960	1000	1000	1000	1000
Time, hrs	0	168	320	488	654	774	942	158	168	168	168	336	504	672

1X Treated
MCS 1489
+0.3% Unox 221
(Imp. 4-24-73)

DSW 283638

Capacitors

#1	.00398	.00333	.00304	.00274	.00283	.00313	.00320	.00317	.00328	.00331	.00313	.00343	.00350	.00345
(ufd)	2.200	2.071	2.075	2.073	2.075	2.075	2.075	2.072	2.071	2.071	2.071	2.070	2.071	2.071
#2	.00384	.00339	.00310	.00280	.00333	.00313	.00325	.00322	.00333	.00335	.00316	.00345	.00351	.00348
(ufd)	2.196	2.068	2.072	2.070	2.072	2.072	2.075	2.070	2.068	2.068	2.068	2.067	2.068	2.068
#3	.00397	.00346	.00316	.00340	.00340	.00325	.00333	.00329	.00340	.00316	.00328	.00352	.00358	.00355
(ufd)	2.180	2.068	2.056	2.053	2.056	2.055	2.055	2.053	2.052	2.052	2.052	2.051	2.051	2.052
#4	.00389	.00347	.00335	.00343	.00341	.00328	.00336	.00333	.00342	.00343	.00328	.00350	.00358	.00355
(ufd)	2.200	2.071	2.075	2.072	2.074	2.074	2.074	2.072	2.071	2.071	2.071	2.070	2070	2.070
#5	.00394	.00358	.00341	.00349	.00349	.00334	.00342	.00342	.00351	.00354	.00339	.00366	.00370	.00369
(ufd)	2.200	2.071	2.075	2.072	2.074	2.074	2.074	2.072	2.070	2.070	2.070	2.069	2.070	2.070
#6	.00389	.00367	.00345	.00359	.00357	.00341	.00346	.00343	.00353	.00356	.00341	.00363	.00381	.00367
(ufd)	2.199	2.070	2.073	2.071	2.073	2.073	2.073	2.071	2.069	2.069	2.069	2.068	2.068	2.069
#7	.00404	.00360	.00346	.00357	.00356	.00345	.00353	.00352	.00364	.00369	.00371	.00381	.00385	.00385
(ufd)	2.211	2.084	2.093	2.094	2.097	2.097	2.098	2.095	2.095	2.092	2.094	2.093	2.095	2.095
#8	.00408	.00356	.00349	.00350	.00351	.00340	.00347	.00343	.00353	.00353	.00357	.00361	.00367	.00366
(ufd)	2.186	2.063	2.073	2.074	2.078	2.078	2.078	2.076	2.075	2.071	2.072	2.071	2.072	2.072
Avg.	.00395	.00351	.00331	.00332	.00338	.00331	.00338	.00335	.00345	.00345	.00337	.00358	.00365	.00361
(ufd)	2.196	2.069	2.074	2.072	2.075	2.075	2.075	2.073	2.071	2.070	2.071	2.070	2.071	2.071

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

Test Conditions, Tan δ, Capacitance, Failure Times

Page 2

Test Started 4-25-73

Temp, °C	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
Time, hrs	826	994	1162	1330	1498	1694	1838	2006	2174	2342	2510	2678	2846	3014
1X Treated MCS1489 +0.3% Unox 221 (Imp 4-24-73)														
Capacitors														
#1 (ufd)	.00299	.00349	.00352	.00334	.00353	.00355	.00336	.00341	.00345	.00346	.00336	.00347	.00307	.00353
	2.074	2.074	2.074	2.074	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075	2.075
#2 (ufd)	.00300	.00351	.00354	.00356	.00355	.00360	.00340	.00340	.00342	.00349	.00339	.00346	.00327	.00355
	2.070	2.071	2.071	2.071	2.071	2.072	2.072	2.071	2.071	2.071	2.071	2.071	2.071	2.071
#3 (ufd)	.00345	.00360	.00361	.00365	.00364	.00369	.00347	.00348	.00352	.00358	.00363	.00354	.00327	.00364
	2.054	2.054	2.055	2.054	2.055	2.055	2.055	2.055	2.055	2.055	2.055	2.055	2.055	2.055
#4 (ufd)	.00349	.00357	.00360	.00360	.00359	.00364	.00339	.00340	.00360	.00351	.00357	.00347	.00313	.00358
	2.073	2.073	2.073	2.073	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.073	2.073	2.074
#5 (ufd)	.00368	.00373	.00375	.00377	.00376	.00380	.00354	.00384	.00378	.00370	.00375	.00365	.00333	.00378
	2.073	2.073	2.073	2.073	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074
#6 (ufd)	.00366	.00370	.00372	.00374	.00373	.00377	.00355	.00379	.00374	.00366	.00371	.00362	.00329	.00375
	2.071	2.071	2.072	2.071	2.072	2.073	2.072	2.072	2.072	2.072	2.072	2.072	2.072	2.072
#7 (ufd)	.00388	.00395	.00398	.00402	.00400	.00404	.00383	.00402	.00403	.00389	.00407	.00394	.00407	.00411
	2.095	2.097	2.098	2.098	2.099	2.099	2.099	2.099	2.099	2.099	2.098	2.098	2.097	2.097
#8 (ufd)	.00366	.00370	.00370	.00373	.00371	.00374	.00353	.00369	.00374	.00354	.00375	.00360	.00372	.00374
	2.072	2.073	2.073	2.073	2.074	2.074	2.075	2.074	2.074	2.074	2.074	2.074	2.073	2.073
Avg (ufd)	.00348	.00366	.00368	.00368	.00369	.00373	.00351	.00363	.00366	.00360	.00365	.00359	.00339	.00371
	2.073	2.073	2.073	2.073	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.073	2.074

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

Page 3
Test Started 4-25-73

Temp, °C	90°	90°	90°	90°
Voltage	1000	1000	1000	1000
Time, hrs	3282	3448	3616	3784
1 X Treated MCS 1489 +0.3% Unox 224 (Emp 4-24-73) Capacitors				
#1	.00370	.00365	.00357	.00362
(ufd)	2.075	2.075	2.076	2.076
#2	.00371	.00364	.00359	.00363
(ufd)	2.071	2.071	2.072	2.072
#3	.00364	.00376	.00377	.00374
(ufd)	2.055	2.055	2.056	2.056
#4	.00372	.00369	.00369	.00367
(ufd)	2.074	2.074	2.075	2.075
#5	.00393	.00388	.00388	.00385
(ufd)	2.074	2.075	2.075	2.075
#6	.00389	.00383	.00384	.00381
(ufd)	2.072	2.073	2.073	2.073
#7	.00425	.00419	.00420	.00418
(ufd)	2.097	2.098	2.098	2.099
#8	.00389	.00383	.00384	.00382
(ufd)	2.073	2.074	2.075	2.075
#9	.00384	.00381	.00380	.00379
(ufd)	2.074	2.074	2.075	2.075

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