

Life Test Data - Paper 17X16X11 Capacitors

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Test Started 4-25-73

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Temp, °C		90°		90°		90°		90°		90°		90°	
Voltage		1000		1000		1000		1000		1000		1000	
Time, hrs		1838		2096		2174		2342		2510		2678	
1X treated		.00351		.00363		.00366		.00360		.00365		.00359	
90% Arched 1016		2.074		2.094		2.074		2.074		2.074		2.074	
1st & 2nd 1-711													
10% 7XS (PP. B. 44)													
dist d Na ₂ CO ₃													
Treated													
+0.30% 440x 221													
(Gr 12, 1-16-73)													

DSW 283897

Temp, °C	RT	90°	90°	90°	90°	90°	90°	90°	90°
V ₀ /Tage	600	870	870	870	870	900	930	960	1000
Time, hrs	0	168	320	488	654	774	942	1158	1400
								168	336
								504	672

IX Treated

1105 1489

40.3% Unox 221

(Imp. 4-24-73)

Capacitors

#1	(wfl)	.00398	.00333	.00304	.00274	.00283	.00313	.00320	.00317	.00328	.00331	.00313	.00343	.00350	.00345
		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	(wfl)	.00384	.00339	.00310	.00290	.00333	.00313	.00325	.00322	.00333	.00335	.00316	.00345	.00351	.00348
		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	(wfl)	.00397	.00346	.00316	.00340	.00340	.00325	.00333	.00329	.00340	.00316	.00328	.00352	.00358	.00355
		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	(wfl)	.00389	.00347	.00335	.00343	.00341	.00328	.00336	.00333	.00342	.00343	.00328	.00350	.00358	.00355
		2.200	2.071	2.075	2.072	2.074	2.074	2.074	2.072	2.071	2.071	2.071	2.070	2.070	2.070
#5	(wfl)	.00394	.00358	.00341	.00349	.00349	.00334	.00342	.00342	.00351	.00354	.00339	.00366	.00370	.00369
		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	(wfl)	.00389	.00367	.00345	.00359	.00351	.00341	.00346	.00343	.00353	.00356	.00341	.00363	.00381	.00367
		2.199	2.070	2.073	2.071	2.073	2.073	2.073	2.071	2.069	2.069	2.068	2.068	2.068	2.069
#7	(wfl)	.00404	.00360	.00346	.00357	.00356	.00345	.00353	.00352	.00364	.00369	.00371	.00381	.00385	.00385
		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	(wfl)	.00408	.00356	.00349	.00350	.00351	.00340	.00347	.00343	.00353	.00353	.00357	.00361	.00367	.00366
		2.196	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	(wfl)	.00395	.00351	.00331	.00332	.00338	.00331	.00338	.00335	.00345	.00345	.00337	.00358	.00365	.00361
		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

DSW 283898

Life Test Data - (Specimen: 54111) Capacitor
Test Conditions, Tan δ , Capacitance, Failure Times

Temp, °C	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°	90°
V ₀ /T ₂ g	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

1X Tested

MC51489

40.38 (max 22)

(Imp 4-24-73)

Capacitors

#1	.00299	.00349	.00352	.00334	.00353	.00355	.00336	.00341	.00345	.00346	.00336	.00347
(440)	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	.00300	.00351	.00354	.00356	.00355	.00360	.00340	.00340	.00342	.00349	.00339	.00346
(440)	2.070	2.071	2.071	2.071	2.071	2.072	2.072	2.071	2.071	2.071	2.071	2.071
#3	.00345	.00360	.00361	.00365	.00364	.00369	.00347	.00348	.00352	.00358	.00363	.00327
(440)	2.054	2.054	2.055	2.054	2.055	2.055	2.055	2.055	2.055	2.055	2.055	2.055
#4	.00349	.00357	.00360	.00360	.00359	.00364	.00339	.00340	.00360	.00351	.00357	.00313
(440)	2.073	2.073	2.073	2.073	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.073
#5	.00368	.00373	.00375	.00377	.00376	.00380	.00354	.00384	.00378	.00370	.00375	.00333
(440)	2.073	2.073	2.073	2.073	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.074
#6	.00366	.00370	.00372	.00374	.00373	.00377	.00355	.00379	.00374	.00366	.00371	.00329
(440)	2.071	2.071	2.072	2.071	2.072	2.073	2.072	2.072	2.072	2.072	2.072	2.072
#7	.00388	.00395	.00398	.00402	.00400	.00404	.00383	.00402	.00403	.00389	.00394	.00407
(440)	2.095	2.097	2.098	2.098	2.099	2.099	2.099	2.099	2.099	2.099	2.098	2.097
#8	.00366	.00370	.00370	.00373	.00371	.00374	.00353	.00369	.00374	.00354	.00375	.00372
(440)	2.072	2.073	2.073	2.073	2.074	2.074	2.075	2.074	2.074	2.074	2.074	2.073
Aug	.00348	.00366	.00368	.00368	.00369	.00373	.00351	.00363	.00366	.00360	.00365	.00339
(440)	2.073	2.073	2.073	2.073	2.074	2.074	2.074	2.074	2.074	2.074	2.074	2.073

DSW 283899