

Description of Testing: J-STD-004B ECM TESTING PER IPC-TM-650 2.6.14.1

40592						
Board Identifier	Sample	Measurement	Ambient prior to conditioning	96 hours at conditions	500 hours at conditions	Ambient after conditioning
WW325 COMB UP	1	1-2	11.01	8.92	9.24	12.55
		2-3	10.86	8.05	8.29	12.28
		3-4	11.15	8.03	8.31	12.26
		4-5	13.37	10.50	11.58	13.26
	2	1-2	10.99	8.99	9.48	11.81
		2-3	10.64	8.04	8.55	12.74
		3-4	10.90	8.10	8.65	12.76
		4-5	13.26	10.71	10.85	14.01
	3	1-2	11.18	9.04	9.50	11.81
		2-3	10.77	8.05	8.58	12.64
		3-4	11.15	8.14	8.75	13.00
		4-5	13.25	10.88	10.86	13.50
WW325 COMB DOWN	1	1-2	12.72	9.41	9.94	11.81
		2-3	12.41	8.42	8.95	12.54
		3-4	12.80	8.50	9.03	13.91
		4-5	12.72	10.92	11.91	13.59
	2	1-2	11.96	9.59	10.19	11.83
		2-3	12.45	8.51	9.01	12.58
		3-4	12.72	8.64	9.16	13.81
		4-5	13.18	10.95	12.05	13.58
	3	1-2	13.51	9.47	9.95	11.80
		2-3	12.27	8.57	9.02	12.53
		3-4	12.93	8.60	9.05	13.60
		4-5	13.59	11.03	11.64	14.04
Bare Copper Controls	1	1-2	12.63	11.22	11.08	12.88
		2-3	11.98	9.81	9.94	13.15
		3-4	11.99	9.68	10.20	14.64
		4-5	13.53	11.28	13.17	13.29

All measurements in Log10

	Average 96	Average 500	Delta
WW325	9.17	9.69	0.52
Bare Copper Controls	10.50	11.10	0.60

Chamber Conditions 65+/-2C; 88+3/-0 % R.H.

Requirement > -1.0

Narrative description of results:

The measured samples did not degrade more than a decade over the duration of the testing. The samples soldered with comb pattern facing upward exhibit green corrosion. The samples soldered with comb pattern facing downward do not exhibit any corrosion. Additionally, no dendrite growth was noted on any samples. See picture at end of report.