




ZIPPY TECHNOLOGY CORP.

**Mean Time Between Failures
PREDICTION REPORT**

MIL-HDBK-217E, Notice 2

Product : Switching Power Supply

Model/Type : USP-2AE0K2(RoHS)(PMBus WP1.2)

Approval By	Carl Chen	正式資料 用章	
Prepared By	Jian-Huan Lin		

ZIPPY TECHNOLOGY CORP.
10F.,No.50,MINQUAN RD.,
XINDIAN DIST.,NEW TAIPEI CITY,TAIWAN,R.O.C.

RELIABILITY PREDICTION STANDARD REPORT
(Sorted by Part Number)
MIL-HDBK-217F, Notice 2

Date : Feb.14,2019 Time : 11:08:52
End Item Title : USP SERIES MTBF
End Item Part Number : USP-2AE0K2(RoHS)(PMBus WP1.2)
USP-2AE0K2(RoHS)(PMBus WP1.2) MTBF : 155,988
Module Title : ZIPPY TECHNOLOGY CORP
Module Part Number : USP / MTBF
Module Reference Designation : USP
Environmental Condition : GB
Ambient Temperature: 25°C

USP-2AE0K2(RoHS)(PMBus WP1.2)

ITEM #	Part Number	Ref Desig	Qual Level	Quant	Individual Failure Rate (F/10 ⁶ Hrs)	Total Failure Rate (F/10 ⁶ Hrs)
1	B105900010	BOM	SPECIAL	1	0.235908	0.235908
2	B106110002	BOM	SPECIAL	1	0.184107	0.184107
3	B106110003	BOM	SPECIAL	1	0.121417	0.121417
4	B106330002	BOM	SPECIAL	1	0.099825	0.099825
5	B106330003	BOM	SPECIAL	1	0.600685	0.600685
6	B106330004	BOM	SPECIAL	1	0.129476	0.129476
7	B106330005	BOM	SPECIAL	1	0.266587	0.266587
8	B200000272	BOM	NMIL	1	0.004579	0.004579
9	B200000308	BOM	NMIL	1	0.013289	0.013289
10	B200000333	BOM	NMIL	1	0.005806	0.005806
11	B200000455	BOM	NMIL	1	0.008308	0.008308
12	B200000601	BOM	NMIL	2	0.005806	0.011612
13	B200010009	BOM	NMIL	1	0.000843	0.000843
14	B200010022	BOM	NMIL	1	0.000843	0.000843
15	B200010235	BOM	NMIL	4	0.065527	0.262108
16	B200010252	BOM	NMIL	12	0.072168	0.866016
17	B200010253	BOM	NMIL	2	0.065527	0.131054
18	B200010273	BOM	NMIL	4	0.072168	0.288672
19	B200020034	BOM	NMIL	1	0.002941	0.002941
20	B200020037	BOM	NMIL	21	0.000424	0.008904
21	B200020038	BOM	NMIL	4	0.002120	0.008480
22	B200030085	BOM	NMIL	1	0.002308	0.002308
23	B200040104	BOM	NMIL	1	0.004278	0.004278
24	B200050048	BOM	NMIL	1	0.002839	0.002839

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25	B200050085	BOM	NMIL	2	0.003013	0.006026
26	B200050088	BOM	NMIL	2	0.003013	0.006026
27	B200060029	BOM	NMIL	1	0.013678	0.013678
28	B200090005	BOM	NMIL	1	0.001476	0.001476
29	B200110001	BOM	NMIL	1	0.002896	0.002896
30	B200110035	BOM	NMIL	1	0.002896	0.002896
31	B200110040	BOM	NMIL	1	0.002896	0.002896
32	B200110042	BOM	NMIL	4	0.002210	0.008840
33	B200110046	BOM	NMIL	1	0.002896	0.002896
34	B200110095	BOM	NMIL	2	0.002896	0.005792
35	B200110099	BOM	NMIL	4	0.002896	0.011584
36	B200110151	BOM	NMIL	1	0.002896	0.002896
37	B200110172	BOM	NMIL	1	0.002896	0.002896
38	B200110254	BOM	NMIL	1	0.002896	0.002896
39	B200110303	BOM	NMIL	2	0.003039	0.006078
40	B200110305	BOM	NMIL	1	0.001551	0.001551
41	B200110313	BOM	NMIL	1	0.002896	0.002896
42	B200110317	BOM	NMIL	2	0.002896	0.005792
43	B200110512	BOM	NMIL	4	0.002210	0.008840
44	B200110529	BOM	NMIL	14	0.002210	0.030940
45	B200110598	BOM	NMIL	2	0.002210	0.004420
46	B200110729	BOM	NMIL	1	0.002026	0.002026
47	B200110733	BOM	NMIL	4	0.002026	0.008104
48	B200110741	BOM	NMIL	1	0.002026	0.002026
49	B200110743	BOM	NMIL	2	0.002026	0.004052
50	B200110814	BOM	NMIL	1	0.002026	0.002026
51	B200110829	BOM	NMIL	3	0.003716	0.011148
52	B200110854	BOM	NMIL	1	0.002026	0.002026
53	B200120198	BOM	NMIL	1	0.004765	0.004765
54	B200160022	BOM	NMIL	1	0.009711	0.009711
55	B200170032	BOM	NMIL	3	0.003177	0.009531
56	B200170055	BOM	NMIL	2	0.003721	0.007442
57	B200170074	BOM	NMIL	5	0.002840	0.014200
58	B200180108	BOM	NMIL	2	0.001974	0.003948
59	B200190038	BOM	NMIL	1	0.011714	0.011714
60	B200200074	BOM	NMIL	4	0.007820	0.031280
61	B200200075	BOM	NMIL	1	0.009676	0.009676
62	B200200114	BOM	NMIL	2	0.006356	0.012712
63	B200200143	BOM	NMIL	1	0.004199	0.004199
64	B200200167	BOM	NMIL	1	0.010356	0.010356

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ITEM #	Part Number	Ref Desig	Qual Level	Quant	Individual Failure Rate (F/10 ⁶ Hrs)	Total Failure Rate (F/10 ⁶ Hrs)
65	B200200170	BOM	NMIL	1	0.007306	0.007306
66	B200200204	BOM	NMIL	2	0.007306	0.014612
67	B200200213	BOM	NMIL	1	0.003924	0.003924
68	B200220082	BOM	NMIL	3	0.001208	0.003624
69	B200230336	BOM	NMIL	1	0.001661	0.001661
70	B200230338	BOM	NMIL	3	0.001978	0.005934
71	B200230350	BOM	NMIL	5	0.027779	0.138895
72	B200230469	BOM	NMIL	4	0.019729	0.078916
73	B200260266	BOM	NMIL	1	0.000196	0.000196
74	B200260280	BOM	NMIL	1	0.000196	0.000196
75	B200260417	BOM	NMIL	1	0.000219	0.000219
76	B200260419	BOM	NMIL	1	0.000221	0.000221
77	B200260440	BOM	NMIL	1	0.000223	0.000223
78	B200280012	BOM	NMIL	1	0.000623	0.000623
79	B200290005	BOM	NMIL	1	0.002901	0.002901
80	B200290011	BOM	NMIL	2	0.002901	0.005802
81	B200290015	BOM	NMIL	2	0.011159	0.022318
82	B200300502	BOM	NMIL	1	0.094536	0.094536
83	B200300503	BOM	NMIL	1	0.007802	0.007802
84	B200310012	BOM	NMIL	1	0.005232	0.005232
85	B200370088	BOM	NMIL	1	0.001373	0.001373
86	B200370115	BOM	NMIL	1	0.001196	0.001196
87	B210000120	BOM	NMIL	1	0.002450	0.002450
88	B210060136	BOM	NMIL	1	0.024396	0.024396
89	B210140060	BOM	SPECIAL	1	2.277217	2.277217
90	B210160059	BOM	NMIL	1	0.010000	0.010000
91	B210192904	BOM	NMIL	1	0.142952	0.142952

Total Failure Rate (F/10⁶Hrs) : 6.410763
 Mean Time (in hours) Between Failures (MTBF) : **155,988**