



ZIPPY TECHNOLOGY CORP.

**Mean Time Between Failures
PREDICTION REPORT**

MIL-HDBK-217F, Notice 2

Product : Switching Power Supply

Model/Type : ZRH-2BB0K2(RoHS)(PMBus WP1.2)

Approval By	<i>Matthew - Chou</i>	正 式 資 料 用 章	
Prepared By	<i>Tain-Huan Lin</i>		

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 : MAR-06-2019 Time : 15:18:37
End Item Title : ZRH SERIES MTBF
End Item Part Number : ZRH-2BB0K2(RoHS)(PMBus WP1.2)
ZRH-2BB0K2(RoHS)(PMBus WP1.2) MTBF : 169,336
Module Title : ZIPPY TECHNOLOGY CORP
Module Part Number : ZRH / MTBF
Module Reference Designation : ZRH
Environmental Condition : GB
Ambient Temperature: 25°C

ZRH-2BB0K2(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	B105950008	BOM	SPECIAL	1	0.150631	0.150631
2	B106310003	BOM	SPECIAL	1	0.232935	0.232935
3	B106310004	BOM	SPECIAL	1	0.192139	0.192139
4	B106310006	BOM	SPECIAL	1	0.523067	0.523067
5	B106310009	BOM	SPECIAL	1	0.906912	0.906912
6	B200000558	BOM	NMIL	1	0.005248	0.005248
7	B200000601	BOM	NMIL	2	0.005806	0.011612
8	B200000603	BOM	NMIL	1	0.005248	0.005248
9	B200000637	BOM	NMIL	1	0.006974	0.006974
10	B200000638	BOM	NMIL	1	0.013289	0.013289
11	B200000656	BOM	NMIL	1	0.005248	0.005248
12	B200010052	BOM	NMIL	2	0.000627	0.001254
13	B200010109	BOM	NMIL	2	0.000627	0.001254
14	B200010167	BOM	NMIL	1	0.000648	0.000648
15	B200010249	BOM	NMIL	1	0.000540	0.000540
16	B200010260	BOM	NMIL	2	0.000585	0.001170
17	B200010262	BOM	NMIL	6	0.072168	0.433008
18	B200010280	BOM	NMIL	2	0.065527	0.131054
19	B200010282	BOM	NMIL	4	0.065527	0.262108
20	B200020016	BOM	NMIL	2	0.000647	0.001294
21	B200020024	BOM	NMIL	1	0.000424	0.000424
22	B200020045	BOM	NMIL	2	0.001228	0.002456
23	B200030069	BOM	NMIL	2	0.001906	0.003812
24	B200030119	BOM	NMIL	1	0.000712	0.000712

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25	B200040065	BOM	NMIL	2	0.011646	0.023292
26	B200040073	BOM	NMIL	4	0.011646	0.046584
27	B200040108	BOM	NMIL	1	0.011646	0.011646
28	B200040152	BOM	NMIL	1	0.011646	0.011646
29	B200040157	BOM	NMIL	1	0.003751	0.003751
30	B200050083	BOM	NMIL	2	0.003013	0.006026
31	B200050084	BOM	NMIL	4	0.003013	0.012052
32	B200060030	BOM	NMIL	1	0.009149	0.009149
33	B200090005	BOM	NMIL	1	0.001476	0.001476
34	B200110006	BOM	NMIL	4	0.002896	0.011584
35	B200110042	BOM	NMIL	7	0.002210	0.015470
36	B200110046	BOM	NMIL	4	0.002896	0.011584
37	B200110095	BOM	NMIL	2	0.002896	0.005792
38	B200110123	BOM	NMIL	2	0.002210	0.004420
39	B200110128	BOM	NMIL	1	0.001551	0.001551
40	B200110190	BOM	NMIL	1	0.002896	0.002896
41	B200110202	BOM	NMIL	1	0.002896	0.002896
42	B200110223	BOM	NMIL	4	0.003039	0.012156
43	B200110227	BOM	NMIL	1	0.002896	0.002896
44	B200110235	BOM	NMIL	2	0.002896	0.005792
45	B200110279	BOM	NMIL	1	0.002210	0.002210
46	B200110309	BOM	NMIL	2	0.002896	0.005792
47	B200110313	BOM	NMIL	1	0.002896	0.002896
48	B200110325	BOM	NMIL	2	0.002896	0.005792
49	B200110441	BOM	NMIL	1	0.002896	0.002896
50	B200110468	BOM	NMIL	1	0.002896	0.002896
51	B200110490	BOM	NMIL	1	0.002210	0.002210
52	B200110501	BOM	NMIL	1	0.002210	0.002210
53	B200110524	BOM	NMIL	1	0.002210	0.002210
54	B200110550	BOM	NMIL	2	0.002210	0.004420
55	B200110574	BOM	NMIL	1	0.002319	0.002319
56	B200110635	BOM	NMIL	2	0.002210	0.004420
57	B200110646	BOM	NMIL	1	0.002210	0.002210
58	B200110652	BOM	NMIL	1	0.002210	0.002210
59	B200110709	BOM	NMIL	1	0.002026	0.002026
60	B200110733	BOM	NMIL	1	0.002026	0.002026
61	B200110743	BOM	NMIL	1	0.002026	0.002026
62	B200110864	BOM	NMIL	1	0.002026	0.002026
63	B200110888	BOM	NMIL	1	0.002210	0.002210
64	B200111089	BOM	NMIL	2	0.002896	0.005792

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65	B200160059	BOM	NMIL	1	0.008611	0.008611
66	B200170078	BOM	NMIL	3	0.003177	0.009531
67	B200170080	BOM	NMIL	2	0.004163	0.008326
68	B200180095	BOM	NMIL	1	0.001907	0.001907
69	B200180097	BOM	NMIL	1	0.002048	0.002048
70	B200180098	BOM	NMIL	1	0.001845	0.001845
71	B200190065	BOM	NMIL	1	0.010191	0.010191
72	B200190098	BOM	NMIL	1	0.004493	0.004493
73	B200200057	BOM	NMIL	2	0.008988	0.017976
74	B200200070	BOM	NMIL	1	0.007077	0.007077
75	B200200092	BOM	NMIL	2	0.009620	0.019240
76	B200200094	BOM	NMIL	1	0.004508	0.004508
77	B200200126	BOM	NMIL	2	0.010356	0.020712
78	B200200156	BOM	NMIL	4	0.006356	0.025424
79	B200200166	BOM	NMIL	2	0.006824	0.013648
80	B200200204	BOM	NMIL	3	0.007306	0.021918
81	B200200208	BOM	NMIL	1	0.006356	0.006356
82	B200210007	BOM	NMIL	1	0.021267	0.021267
83	B200220010	BOM	NMIL	1	0.003943	0.003943
84	B200220074	BOM	NMIL	2	0.002117	0.004234
85	B200220082	BOM	NMIL	5	0.001208	0.006040
86	B200230342	BOM	NMIL	1	0.002999	0.002999
87	B200230506	BOM	NMIL	1	0.001165	0.001165
88	B200230507	BOM	NMIL	2	0.014141	0.028282
89	B200230553	BOM	NMIL	2	0.028457	0.056914
90	B200230561	BOM	NMIL	3	0.011573	0.034719
91	B200240010	BOM	NMIL	4	0.004594	0.018376
92	B200250018	BOM	NMIL	1	0.000231	0.000231
93	B200260407	BOM	NMIL	1	0.000251	0.000251
94	B200260439	BOM	NMIL	1	0.000251	0.000251
95	B200280012	BOM	NMIL	1	0.000623	0.000623
96	B200290011	BOM	NMIL	2	0.002901	0.005802
97	B200300315	BOM	NMIL	1	0.050163	0.050163
98	B200300458	BOM	NMIL	1	0.008277	0.008277
99	B200300499	BOM	NMIL	1	0.038174	0.038174
100	B200310010	BOM	NMIL	1	0.009156	0.009156
101	B200360064	BOM	NMIL	1	0.001528	0.001528
102	B200370111	BOM	NMIL	1	0.001196	0.001196
103	B200370115	BOM	NMIL	2	0.001196	0.002392
104	B200370116	BOM	NMIL	1	0.001196	0.001196

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105	B210060136	BOM	NMIL	1	0.024396	0.024396
106	B210090247	BOM	SPECIAL	1	2.182912	2.182912
107	B210160078	BOM	NMIL	1	0.010000	0.010000
108	B210191722	BOM	NMIL	2	0.000429	0.000858
109	B210192888	BOM	NMIL	1	0.046214	0.046214
110	B210192891	BOM	NMIL	1	0.003548	0.003548

Total Failure Rate (F/10⁶Hrs) : 5.905411
Mean Time (in hours) Between Failures (MTBF) : **169,336**