



ZIPPY TECHNOLOGY CORP.

Mean Time Between Failures PREDICTION REPORT

MIL-HDBK-217F, Notice 2

Product : Switching Power Supply

Model/Type : ZRE-1A00T2 (RoHS)(PMBus WP1.2)

Approval By		正式 資料 用 章	
Prepared By			

ZIPPY TECHNOLOGY CORP.
6F.,NO.48,WUQUAN RD.,
WUGU DIST.,NEW TAIPEI CITY,TAIWAN,R.O.C.
RELIABILITY PREDICTION STANDARD REPORT
(Sorted by Part Number)
MIL-HDBK-217F, Notice 2

Date : DEC-07-2020 Time : 15:22:27
End Item Title : ZRE SERIES MTBF
End Item Part Number : ZRE-1A00T2(RoHS)(PMBus WP1.2)
ZRE-1A00T2(RoHS)(PMBus WP1.2) MTBF : 192,680
Module Title : ZIPPY TECHNOLOGY CORP
Module Part Number : ZRE / MTBF
Module Reference Designation : ZRE
Environmental Condition : GB
Ambient Temperature: 25°C

ZRE-1A00T2(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	B106450006	BOM	SPECIAL	1	0.045432	0.045432
2	B106700002	BOM	SPECIAL	1	0.292785	0.292785
3	B106700003	BOM	SPECIAL	1	0.278742	0.278742
4	B106700004	BOM	SPECIAL	1	0.531468	0.531468
5	B106700005	BOM	SPECIAL	1	0.938925	0.938925
6	B200000709	BOM	NMIL	1	0.005806	0.005806
7	B200000721	BOM	NMIL	1	0.010211	0.010211
8	B200000734	BOM	NMIL	1	0.005806	0.005806
9	B200010052	BOM	NMIL	2	0.000627	0.001254
10	B200010253	BOM	NMIL	2	0.065527	0.131054
11	B200010269	BOM	NMIL	2	0.000652	0.001304
12	B200010280	BOM	NMIL	2	0.065527	0.131054
13	B200010294	BOM	NMIL	2	0.072168	0.144336
14	B200010296	BOM	NMIL	1	0.001286	0.001286
15	B200020024	BOM	NMIL	2	0.000414	0.000828
16	B200020046	BOM	NMIL	1	0.000755	0.000755
17	B200030069	BOM	NMIL	2	0.001906	0.003812
18	B200030086	BOM	NMIL	1	0.001224	0.001224
19	B200030119	BOM	NMIL	1	0.000712	0.000712
20	B200040073	BOM	NMIL	5	0.011646	0.058230
21	B200040111	BOM	NMIL	1	0.003751	0.003751
22	B200050036	BOM	NMIL	1	0.003013	0.003013
23	B200050084	BOM	NMIL	2	0.003013	0.006026
24	B200090055	BOM	NMIL	1	0.001476	0.001476

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ITEM #	Part Number	Ref Desig	Qual Level	Quant	Individual Failure Rate (F/10^6Hrs)	Total Failure Rate (F/10^6Hrs)
25	B200110042	BOM	NMIL	2	0.002210	0.004420
26	B200110046	BOM	NMIL	2	0.002896	0.005792
27	B200110095	BOM	NMIL	1	0.002896	0.002896
28	B200110120	BOM	NMIL	1	0.002896	0.002896
29	B200110123	BOM	NMIL	3	0.002210	0.006630
30	B200110162	BOM	NMIL	1	0.002896	0.002896
31	B200110167	BOM	NMIL	1	0.002896	0.002896
32	B200110223	BOM	NMIL	4	0.003039	0.012156
33	B200110235	BOM	NMIL	2	0.002896	0.005792
34	B200110317	BOM	NMIL	1	0.002896	0.002896
35	B200110325	BOM	NMIL	2	0.002896	0.005792
36	B200110455	BOM	NMIL	1	0.002896	0.002896
37	B200110471	BOM	NMIL	1	0.002896	0.002896
38	B200110635	BOM	NMIL	2	0.002210	0.004420
39	B200110733	BOM	NMIL	2	0.002026	0.004052
40	B200110746	BOM	NMIL	1	0.002026	0.002026
41	B200110771	BOM	NMIL	1	0.002026	0.002026
42	B200111203	BOM	NMIL	1	0.002026	0.002026
43	B200160056	BOM	NMIL	1	0.009711	0.009711
44	B200170018	BOM	NMIL	2	0.003177	0.006354
45	B200170069	BOM	NMIL	3	0.003177	0.009531
46	B200180095	BOM	NMIL	1	0.001907	0.001907
47	B200180108	BOM	NMIL	1	0.001974	0.001974
48	B200180118	BOM	NMIL	2	0.001605	0.003210
49	B200190065	BOM	NMIL	1	0.010191	0.010191
50	B200190098	BOM	NMIL	1	0.004493	0.004493
51	B200200123	BOM	NMIL	1	0.003413	0.003413
52	B200200126	BOM	NMIL	5	0.010356	0.051780
53	B200200156	BOM	NMIL	1	0.006356	0.006356
54	B200200204	BOM	NMIL	4	0.007306	0.029224
55	B200200208	BOM	NMIL	1	0.006356	0.006356
56	B200200230	BOM	NMIL	3	0.007820	0.023460
57	B200220010	BOM	NMIL	1	0.003943	0.003943
58	B200220053	BOM	NMIL	1	0.001253	0.001253
59	B200220056	BOM	NMIL	1	0.001051	0.001051
60	B200220063	BOM	NMIL	2	0.001208	0.002416
61	B200220073	BOM	NMIL	1	0.002605	0.002605
62	B200230568	BOM	NMIL	2	0.016811	0.033622
63	B200230593	BOM	NMIL	1	0.025835	0.025835
64	B200240006	BOM	NMIL	2	0.004837	0.009674

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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	B200250016	BOM	NMIL	1	0.000245	0.000245
66	B200250058	BOM	NMIL	1	0.000231	0.000231
67	B200260455	BOM	NMIL	1	0.000251	0.000251
68	B200260470	BOM	NMIL	1	0.000231	0.000231
69	B200260471	BOM	NMIL	1	0.000251	0.000251
70	B200280012	BOM	NMIL	1	0.000623	0.000623
71	B200290015	BOM	NMIL	2	0.011159	0.022318
72	B200300543	BOM	NMIL	1	0.029903	0.029903
73	B200310025	BOM	NMIL	1	0.005232	0.005232
74	B200360083	BOM	NMIL	1	0.002189	0.002189
75	B200370051	BOM	NMIL	1	0.001196	0.001196
76	B210090232	BOM	SPECIAL	1	2.182912	2.182912
77	B210191722	BOM	NMIL	1	0.000429	0.000429
78	B210193098	BOM	NMIL	1	0.003870	0.003870
79	B210193294	BOM	NMIL	1	0.017022	0.017022

Total Failure Rate (F/10⁶Hrs) : 5.189956
Mean Time (in hours) Between Failures (MTBF) : 192,680