



ZIPPY TECHNOLOGY CORP.

# Mean Time Between Failures PREDICTION REPORT

MIL-HDBK-217F, Notice 2

Product : Switching Power Supply

Model/Type : ZRH-2B00T2(RoHS)(PMBus WP1.2)

|             |                      |                    |  |
|-------------|----------------------|--------------------|--|
| Approval By | <i>Wei Di Huang</i>  | 正式<br>資料<br>用<br>章 |  |
| Prepared By | <i>Zain Huan Lin</i> |                    |  |

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 : JUL-26-2022      Time : 14:15:52  
End Item Title : ZRH SERIES MTBF  
End Item Part Number : ZRH-2B00T2(RoHS)(PMBus WP1.2)  
ZRH-2B00T2(RoHS)(PMBus WP1.2) MTBF : 133,358  
Module Title : ZIPPY TECHNOLOGY CORP  
Module Part Number : ZRH / MTBF  
Module Reference Designation : ZRH  
Environmental Condition : GB  
Ambient Temperature: 25°C

ZRH-2B00T2(RoHS)(PMBus WP1.2)

| ITEM<br># | Part<br>Number | Ref<br>Desig | Qual<br>Level | Quant | Individual<br>Failure Rate<br>(F/10 <sup>6</sup> Hrs) | Total<br>Failure Rate<br>(F/10 <sup>6</sup> Hrs) |
|-----------|----------------|--------------|---------------|-------|-------------------------------------------------------|--------------------------------------------------|
| 1         | B106020031     | BOM          | SPECIAL       | 1     | 0.365261                                              | 0.365261                                         |
| 2         | B106020040     | BOM          | SPECIAL       | 1     | 0.255002                                              | 0.255002                                         |
| 3         | B106020066     | BOM          | SPECIAL       | 1     | 1.501915                                              | 1.501915                                         |
| 4         | B106020069     | BOM          | SPECIAL       | 1     | 1.160085                                              | 1.160085                                         |
| 5         | B200000582     | BOM          | NMIL          | 1     | 0.009454                                              | 0.009454                                         |
| 6         | B200000640     | BOM          | NMIL          | 3     | 0.006522                                              | 0.019566                                         |
| 7         | B200000641     | BOM          | NMIL          | 2     | 0.008063                                              | 0.016126                                         |
| 8         | B200010192     | BOM          | NMIL          | 1     | 0.009694                                              | 0.009694                                         |
| 9         | B200010261     | BOM          | NMIL          | 1     | 0.000689                                              | 0.000689                                         |
| 10        | B200010262     | BOM          | NMIL          | 1     | 0.072168                                              | 0.072168                                         |
| 11        | B200010263     | BOM          | NMIL          | 1     | 0.002333                                              | 0.002333                                         |
| 12        | B200010269     | BOM          | NMIL          | 1     | 0.000652                                              | 0.000652                                         |
| 13        | B200010270     | BOM          | NMIL          | 1     | 0.000652                                              | 0.000652                                         |
| 14        | B200010273     | BOM          | NMIL          | 6     | 0.072168                                              | 0.433008                                         |
| 15        | B200010274     | BOM          | NMIL          | 2     | 0.065527                                              | 0.131054                                         |
| 16        | B200010276     | BOM          | NMIL          | 4     | 0.065527                                              | 0.262108                                         |
| 17        | B200020039     | BOM          | NMIL          | 1     | 0.002071                                              | 0.002071                                         |
| 18        | B200030115     | BOM          | NMIL          | 2     | 0.000712                                              | 0.001424                                         |
| 19        | B200040062     | BOM          | NMIL          | 1     | 0.001242                                              | 0.001242                                         |
| 20        | B200040141     | BOM          | NMIL          | 13    | 0.008485                                              | 0.110305                                         |
| 21        | B200040142     | BOM          | NMIL          | 1     | 0.011646                                              | 0.011646                                         |
| 22        | B200040157     | BOM          | NMIL          | 1     | 0.018259                                              | 0.018259                                         |
| 23        | B200050070     | BOM          | NMIL          | 1     | 0.003013                                              | 0.003013                                         |
| 24        | B200050082     | BOM          | NMIL          | 1     | 0.003013                                              | 0.003013                                         |

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| ITEM<br># | Part<br>Number | Ref<br>Desig | Qual<br>Level | Quant | Individual<br>Failure Rate<br>(F/10 <sup>6</sup> Hrs) | Total<br>Failure Rate<br>(F/10 <sup>6</sup> Hrs) |
|-----------|----------------|--------------|---------------|-------|-------------------------------------------------------|--------------------------------------------------|
| 25        | B200050090     | BOM          | NMIL          | 2     | 0.003013                                              | 0.006026                                         |
| 26        | B200050094     | BOM          | NMIL          | 2     | 0.003013                                              | 0.006026                                         |
| 27        | B200090055     | BOM          | NMIL          | 1     | 0.001476                                              | 0.001476                                         |
| 28        | B200110042     | BOM          | NMIL          | 6     | 0.002210                                              | 0.013260                                         |
| 29        | B200110046     | BOM          | NMIL          | 2     | 0.002896                                              | 0.005792                                         |
| 30        | B200110120     | BOM          | NMIL          | 1     | 0.002896                                              | 0.002896                                         |
| 31        | B200110198     | BOM          | NMIL          | 1     | 0.002896                                              | 0.002896                                         |
| 32        | B200110223     | BOM          | NMIL          | 3     | 0.003039                                              | 0.009117                                         |
| 33        | B200110325     | BOM          | NMIL          | 1     | 0.002896                                              | 0.002896                                         |
| 34        | B200110346     | BOM          | NMIL          | 1     | 0.002896                                              | 0.002896                                         |
| 35        | B200110470     | BOM          | NMIL          | 3     | 0.003716                                              | 0.011148                                         |
| 36        | B200110508     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 37        | B200110512     | BOM          | NMIL          | 6     | 0.002210                                              | 0.013260                                         |
| 38        | B200110573     | BOM          | NMIL          | 4     | 0.002319                                              | 0.009276                                         |
| 39        | B200110574     | BOM          | NMIL          | 6     | 0.002319                                              | 0.013914                                         |
| 40        | B200110629     | BOM          | NMIL          | 4     | 0.002319                                              | 0.009276                                         |
| 41        | B200110727     | BOM          | NMIL          | 2     | 0.002210                                              | 0.004420                                         |
| 42        | B200110732     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 43        | B200110733     | BOM          | NMIL          | 7     | 0.002026                                              | 0.014182                                         |
| 44        | B200110737     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 45        | B200110739     | BOM          | NMIL          | 7     | 0.002026                                              | 0.014182                                         |
| 46        | B200110743     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 47        | B200110744     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 48        | B200110745     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 49        | B200110771     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 50        | B200110775     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 51        | B200110789     | BOM          | NMIL          | 6     | 0.002210                                              | 0.013260                                         |
| 52        | B200110794     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 53        | B200110800     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 54        | B200110821     | BOM          | NMIL          | 1     | 0.002126                                              | 0.002126                                         |
| 55        | B200110839     | BOM          | NMIL          | 1     | 0.002126                                              | 0.002126                                         |
| 56        | B200110848     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 57        | B200110850     | BOM          | NMIL          | 1     | 0.002126                                              | 0.002126                                         |
| 58        | B200111014     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 59        | B200111107     | BOM          | NMIL          | 3     | 0.003716                                              | 0.011148                                         |
| 60        | B200120204     | BOM          | NMIL          | 1     | 0.003637                                              | 0.003637                                         |
| 61        | B200160054     | BOM          | NMIL          | 1     | 0.002852                                              | 0.002852                                         |
| 62        | B200160056     | BOM          | NMIL          | 1     | 0.009711                                              | 0.009711                                         |
| 63        | B200170029     | BOM          | NMIL          | 2     | 0.003721                                              | 0.007442                                         |
| 64        | B200170073     | BOM          | NMIL          | 1     | 0.002424                                              | 0.002424                                         |

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| ITEM<br># | Part<br>Number | Ref<br>Desig | Qual<br>Level | Quant | Individual<br>Failure Rate<br>(F/10^6Hrs) | Total<br>Failure Rate<br>(F/10^6Hrs) |
|-----------|----------------|--------------|---------------|-------|-------------------------------------------|--------------------------------------|
| 65        | B200170074     | BOM          | NMIL          | 5     | 0.002840                                  | 0.014200                             |
| 66        | B200170075     | BOM          | NMIL          | 1     | 0.002424                                  | 0.002424                             |
| 67        | B200180095     | BOM          | NMIL          | 1     | 0.001907                                  | 0.001907                             |
| 68        | B200180105     | BOM          | NMIL          | 1     | 0.001845                                  | 0.001845                             |
| 69        | B200190103     | BOM          | NMIL          | 1     | 0.013004                                  | 0.013004                             |
| 70        | B200200085     | BOM          | NMIL          | 1     | 0.007553                                  | 0.007553                             |
| 71        | B200200117     | BOM          | NMIL          | 1     | 0.005546                                  | 0.005546                             |
| 72        | B200200119     | BOM          | NMIL          | 1     | 0.004827                                  | 0.004827                             |
| 73        | B200200123     | BOM          | NMIL          | 5     | 0.003413                                  | 0.017065                             |
| 74        | B200200141     | BOM          | NMIL          | 1     | 0.007820                                  | 0.007820                             |
| 75        | B200200156     | BOM          | NMIL          | 3     | 0.006356                                  | 0.019068                             |
| 76        | B200200167     | BOM          | NMIL          | 1     | 0.010356                                  | 0.010356                             |
| 77        | B200200171     | BOM          | NMIL          | 2     | 0.003664                                  | 0.007328                             |
| 78        | B200200186     | BOM          | NMIL          | 1     | 0.003189                                  | 0.003189                             |
| 79        | B200200205     | BOM          | NMIL          | 4     | 0.007820                                  | 0.031280                             |
| 80        | B200200207     | BOM          | NMIL          | 1     | 0.005166                                  | 0.005166                             |
| 81        | B200200208     | BOM          | NMIL          | 2     | 0.006356                                  | 0.012712                             |
| 82        | B200200217     | BOM          | NMIL          | 3     | 0.006356                                  | 0.019068                             |
| 83        | B200200218     | BOM          | NMIL          | 11    | 0.009620                                  | 0.105820                             |
| 84        | B200200219     | BOM          | NMIL          | 4     | 0.005166                                  | 0.020664                             |
| 85        | B200220082     | BOM          | NMIL          | 1     | 0.001208                                  | 0.001208                             |
| 86        | B200220086     | BOM          | NMIL          | 2     | 0.001208                                  | 0.002416                             |
| 87        | B200220089     | BOM          | NMIL          | 2     | 0.001253                                  | 0.002506                             |
| 88        | B200230524     | BOM          | NMIL          | 1     | 0.001803                                  | 0.001803                             |
| 89        | B200230537     | BOM          | NMIL          | 4     | 0.016249                                  | 0.064996                             |
| 90        | B200230548     | BOM          | NMIL          | 1     | 0.026105                                  | 0.026105                             |
| 91        | B200260411     | BOM          | NMIL          | 1     | 0.000251                                  | 0.000251                             |
| 92        | B200260464     | BOM          | NMIL          | 1     | 0.000251                                  | 0.000251                             |
| 93        | B200260472     | BOM          | NMIL          | 1     | 0.000221                                  | 0.000221                             |
| 94        | B200270026     | BOM          | NMIL          | 1     | 0.000227                                  | 0.000227                             |
| 95        | B200280012     | BOM          | NMIL          | 1     | 0.000623                                  | 0.000623                             |
| 96        | B200290024     | BOM          | NMIL          | 2     | 0.011159                                  | 0.022318                             |
| 97        | B200310025     | BOM          | NMIL          | 1     | 0.005232                                  | 0.005232                             |
| 98        | B200360074     | BOM          | NMIL          | 1     | 0.001938                                  | 0.001938                             |
| 99        | B210060136     | BOM          | NMIL          | 1     | 0.024396                                  | 0.024396                             |
| 100       | B210090257     | BOM          | SPECIAL       | 1     | 2.276868                                  | 2.276868                             |
| 101       | B210160078     | BOM          | NMIL          | 1     | 0.010000                                  | 0.010000                             |
| 102       | B210192786     | BOM          | NMIL          | 1     | 0.002468                                  | 0.002468                             |
| 103       | B210193041     | BOM          | NMIL          | 1     | 0.095528                                  | 0.095528                             |
| 104       | B210193472     | BOM          | NMIL          | 1     | 0.025102                                  | 0.025102                             |

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| ITEM<br># | Part<br>Number | Ref<br>Desig | Qual<br>Level | Quant | Individual<br>Failure Rate<br>(F/10^6Hrs) | Total<br>Failure Rate<br>(F/10^6Hrs) |
|-----------|----------------|--------------|---------------|-------|-------------------------------------------|--------------------------------------|
|-----------|----------------|--------------|---------------|-------|-------------------------------------------|--------------------------------------|

|                                                |          |
|------------------------------------------------|----------|
| Total Failure Rate (F/10^6Hrs) :               | 7.498614 |
| Mean Time (in hours) Between Failures (MTBF) : | 133,358  |