

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 : NOV-16-2017      Time : 11:16:28  
End Item Title : MP1P SERIES MTBF  
End Item Part Number : MP1P-5300G(RoHS)  
MP1P-5300G(RoHS) MTBF : 244,401  
Module Title : ZIPPY TECHNOLOGY CORP  
Module Part Number : MP1P / MTBF  
Module Reference Designation : MP1P  
Environmental Condition : GB  
Ambient Temperature: 25°C

**MP1P-5300G(RoHS)**

| 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         | B103210004     | BOM          | SPECIAL       | 1     | 0.075116                                              | 0.075116                                         |
| 2         | B104430015     | BOM          | SPECIAL       | 1     | 0.101177                                              | 0.101177                                         |
| 3         | B106100002     | BOM          | SPECIAL       | 1     | 0.512354                                              | 0.512354                                         |
| 4         | B106100003     | BOM          | SPECIAL       | 1     | 0.130636                                              | 0.130636                                         |
| 5         | B200000308     | BOM          | NMIL          | 4     | 0.013289                                              | 0.053156                                         |
| 6         | B200000442     | BOM          | NMIL          | 1     | 0.005182                                              | 0.005182                                         |
| 7         | B200000553     | BOM          | NMIL          | 1     | 0.009454                                              | 0.009454                                         |
| 8         | B200000555     | BOM          | NMIL          | 1     | 0.012969                                              | 0.012969                                         |
| 9         | B200000597     | BOM          | NMIL          | 1     | 0.006529                                              | 0.006529                                         |
| 10        | B200000628     | BOM          | NMIL          | 2     | 0.006015                                              | 0.012030                                         |
| 11        | B200000667     | BOM          | NMIL          | 1     | 0.012969                                              | 0.012969                                         |
| 12        | B200010022     | BOM          | NMIL          | 2     | 0.000453                                              | 0.000906                                         |
| 13        | B200010052     | BOM          | NMIL          | 3     | 0.000337                                              | 0.001011                                         |
| 14        | B200010056     | BOM          | NMIL          | 1     | 0.000323                                              | 0.000323                                         |
| 15        | B200010087     | BOM          | NMIL          | 2     | 0.008014                                              | 0.016028                                         |
| 16        | B200010225     | BOM          | NMIL          | 2     | 0.073390                                              | 0.146780                                         |
| 17        | B200020024     | BOM          | NMIL          | 10    | 0.002332                                              | 0.023320                                         |
| 18        | B200020034     | BOM          | NMIL          | 1     | 0.016175                                              | 0.016175                                         |
| 19        | B200030055     | BOM          | NMIL          | 1     | 0.002308                                              | 0.002308                                         |
| 20        | B200030080     | BOM          | NMIL          | 1     | 0.002308                                              | 0.002308                                         |
| 21        | B200030107     | BOM          | NMIL          | 1     | 0.002308                                              | 0.002308                                         |
| 22        | B200040032     | BOM          | NMIL          | 1     | 0.018259                                              | 0.018259                                         |
| 23        | B200040125     | BOM          | NMIL          | 1     | 0.002994                                              | 0.002994                                         |
| 24        | B200050035     | BOM          | NMIL          | 1     | 0.005992                                              | 0.005992                                         |

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|-----------|----------------|--------------|---------------|-------|-------------------------------------------------------|--------------------------------------------------|
| 25        | B200050045     | BOM          | NMIL          | 3     | 0.005992                                              | 0.017976                                         |
| 26        | B200060025     | BOM          | NMIL          | 1     | 0.003001                                              | 0.003001                                         |
| 27        | B200110001     | BOM          | NMIL          | 2     | 0.002896                                              | 0.005792                                         |
| 28        | B200110042     | BOM          | NMIL          | 2     | 0.002210                                              | 0.004420                                         |
| 29        | B200110120     | BOM          | NMIL          | 1     | 0.002896                                              | 0.002896                                         |
| 30        | B200110123     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 31        | B200110192     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 32        | B200110261     | BOM          | NMIL          | 2     | 0.002210                                              | 0.004420                                         |
| 33        | B200110279     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 34        | B200110337     | BOM          | NMIL          | 2     | 0.003039                                              | 0.006078                                         |
| 35        | B200110343     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 36        | B200110470     | BOM          | NMIL          | 1     | 0.003716                                              | 0.003716                                         |
| 37        | B200110504     | BOM          | NMIL          | 1     | 0.002319                                              | 0.002319                                         |
| 38        | B200110506     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 39        | B200110512     | BOM          | NMIL          | 3     | 0.002210                                              | 0.006630                                         |
| 40        | B200110523     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 41        | B200110529     | BOM          | NMIL          | 2     | 0.002210                                              | 0.004420                                         |
| 42        | B200110531     | BOM          | NMIL          | 2     | 0.002210                                              | 0.004420                                         |
| 43        | B200110542     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 44        | B200110557     | BOM          | NMIL          | 3     | 0.003716                                              | 0.011148                                         |
| 45        | B200110609     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 46        | B200110691     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 47        | B200110696     | BOM          | NMIL          | 5     | 0.003716                                              | 0.018580                                         |
| 48        | B200110709     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 49        | B200110729     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 50        | B200110733     | BOM          | NMIL          | 5     | 0.002026                                              | 0.010130                                         |
| 51        | B200110737     | BOM          | NMIL          | 1     | 0.002210                                              | 0.002210                                         |
| 52        | B200110743     | BOM          | NMIL          | 5     | 0.002026                                              | 0.010130                                         |
| 53        | B200110771     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 54        | B200110775     | BOM          | NMIL          | 6     | 0.002026                                              | 0.012156                                         |
| 55        | B200110776     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 56        | B200110794     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 57        | B200110807     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 58        | B200110809     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 59        | B200110811     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 60        | B200110814     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 61        | B200110820     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 62        | B200110822     | BOM          | NMIL          | 1     | 0.002126                                              | 0.002126                                         |
| 63        | B200110825     | BOM          | NMIL          | 1     | 0.002126                                              | 0.002126                                         |
| 64        | B200110830     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |

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|-----------|----------------|--------------|---------------|-------|-------------------------------------------------------|--------------------------------------------------|
| 65        | B200110834     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 66        | B200110841     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 67        | B200110854     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 68        | B200110864     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 69        | B200110865     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 70        | B200110870     | BOM          | NMIL          | 1     | 0.002126                                              | 0.002126                                         |
| 71        | B200110872     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 72        | B200110949     | BOM          | NMIL          | 1     | 0.002126                                              | 0.002126                                         |
| 73        | B200110984     | BOM          | NMIL          | 4     | 0.002896                                              | 0.011584                                         |
| 74        | B200110988     | BOM          | NMIL          | 1     | 0.002026                                              | 0.002026                                         |
| 75        | B200111068     | BOM          | NMIL          | 2     | 0.002026                                              | 0.004052                                         |
| 76        | B200111121     | BOM          | NMIL          | 1     | 0.002896                                              | 0.002896                                         |
| 77        | B200111122     | BOM          | NMIL          | 2     | 0.003716                                              | 0.007432                                         |
| 78        | B200160011     | BOM          | NMIL          | 1     | 0.007893                                              | 0.007893                                         |
| 79        | B200160017     | BOM          | NMIL          | 1     | 0.004760                                              | 0.004760                                         |
| 80        | B200180075     | BOM          | NMIL          | 2     | 0.001907                                              | 0.003814                                         |
| 81        | B200180098     | BOM          | NMIL          | 2     | 0.001845                                              | 0.003690                                         |
| 82        | B200190064     | BOM          | NMIL          | 1     | 0.012538                                              | 0.012538                                         |
| 83        | B200190088     | BOM          | NMIL          | 1     | 0.011714                                              | 0.011714                                         |
| 84        | B200190089     | BOM          | NMIL          | 1     | 0.003652                                              | 0.003652                                         |
| 85        | B200200068     | BOM          | NMIL          | 1     | 0.003924                                              | 0.003924                                         |
| 86        | B200200087     | BOM          | NMIL          | 1     | 0.007306                                              | 0.007306                                         |
| 87        | B200200121     | BOM          | NMIL          | 1     | 0.006824                                              | 0.006824                                         |
| 88        | B200200123     | BOM          | NMIL          | 1     | 0.003413                                              | 0.003413                                         |
| 89        | B200200125     | BOM          | NMIL          | 1     | 0.003924                                              | 0.003924                                         |
| 90        | B200200140     | BOM          | NMIL          | 1     | 0.003664                                              | 0.003664                                         |
| 91        | B200200143     | BOM          | NMIL          | 1     | 0.004199                                              | 0.004199                                         |
| 92        | B200200144     | BOM          | NMIL          | 1     | 0.006139                                              | 0.006139                                         |
| 93        | B200200153     | BOM          | NMIL          | 1     | 0.005166                                              | 0.005166                                         |
| 94        | B200200156     | BOM          | NMIL          | 1     | 0.006356                                              | 0.006356                                         |
| 95        | B200200157     | BOM          | NMIL          | 2     | 0.006356                                              | 0.012712                                         |
| 96        | B200200175     | BOM          | NMIL          | 1     | 0.003189                                              | 0.003189                                         |
| 97        | B200200200     | BOM          | NMIL          | 1     | 0.005939                                              | 0.005939                                         |
| 98        | B200200205     | BOM          | NMIL          | 4     | 0.007820                                              | 0.031280                                         |
| 99        | B200200206     | BOM          | NMIL          | 1     | 0.008395                                              | 0.008395                                         |
| 100       | B200200207     | BOM          | NMIL          | 2     | 0.005166                                              | 0.010332                                         |
| 101       | B200200208     | BOM          | NMIL          | 3     | 0.006356                                              | 0.019068                                         |
| 102       | B200200209     | BOM          | NMIL          | 5     | 0.004508                                              | 0.022540                                         |
| 103       | B200200210     | BOM          | NMIL          | 2     | 0.007820                                              | 0.015640                                         |
| 104       | B200200211     | BOM          | NMIL          | 1     | 0.005753                                              | 0.005753                                         |

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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) |
|-----------|----------------|--------------|---------------|-------|-------------------------------------------|--------------------------------------|
| 105       | B200220060     | BOM          | NMIL          | 4     | 0.000915                                  | 0.003660                             |
| 106       | B200220064     | BOM          | NMIL          | 1     | 0.001068                                  | 0.001068                             |
| 107       | B200230036     | BOM          | NMIL          | 1     | 0.020641                                  | 0.020641                             |
| 108       | B200230288     | BOM          | NMIL          | 1     | 0.001248                                  | 0.001248                             |
| 109       | B200230336     | BOM          | NMIL          | 1     | 0.001779                                  | 0.001779                             |
| 110       | B200230337     | BOM          | NMIL          | 1     | 0.001484                                  | 0.001484                             |
| 111       | B200230338     | BOM          | NMIL          | 4     | 0.002034                                  | 0.008136                             |
| 112       | B200230350     | BOM          | NMIL          | 2     | 0.023765                                  | 0.047530                             |
| 113       | B200230381     | BOM          | NMIL          | 1     | 0.006761                                  | 0.006761                             |
| 114       | B200230462     | BOM          | NMIL          | 3     | 0.013588                                  | 0.040764                             |
| 115       | B200250009     | BOM          | NMIL          | 1     | 0.012238                                  | 0.012238                             |
| 116       | B200250017     | BOM          | NMIL          | 1     | 0.014121                                  | 0.014121                             |
| 117       | B200260208     | BOM          | NMIL          | 2     | 0.019936                                  | 0.039872                             |
| 118       | B200260388     | BOM          | NMIL          | 1     | 0.019936                                  | 0.019936                             |
| 119       | B200280012     | BOM          | NMIL          | 1     | 0.000623                                  | 0.000623                             |
| 120       | B200290005     | BOM          | NMIL          | 1     | 0.002901                                  | 0.002901                             |
| 121       | B200300422     | BOM          | NMIL          | 1     | 0.004079                                  | 0.004079                             |
| 122       | B200300432     | BOM          | NMIL          | 1     | 0.004007                                  | 0.004007                             |
| 123       | B200300469     | BOM          | NMIL          | 1     | 0.024888                                  | 0.024888                             |
| 124       | B200310019     | BOM          | NMIL          | 1     | 0.005232                                  | 0.005232                             |
| 125       | B200370050     | BOM          | NMIL          | 1     | 0.000962                                  | 0.000962                             |
| 126       | B210060136     | BOM          | NMIL          | 1     | 0.024396                                  | 0.024396                             |
| 127       | B210090122     | BOM          | SPECIAL       | 1     | 2.134055                                  | 2.134055                             |
| 128       | B210160006     | BOM          | NMIL          | 2     | 0.010000                                  | 0.020000                             |
| 129       | B210192668     | BOM          | NMIL          | 1     | 0.015753                                  | 0.015753                             |

Total Failure Rate (F/10^6Hrs) : 4.091640  
Mean Time (in hours) Between Failures (MTBF) : 244,401