

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 : DEC-26-2014      Time : 11:41:21  
End Item Title : Q1S SERIES MTBF  
End Item Part Number : Q1S-1150V12 (RoHS)  
Q1S-1150V12 (RoHS) MTBF : 573,814  
Module Title : ZIPPY TECHNOLOGY CORP  
Module Part Number : Q1S / MTBF  
Module Reference Designation : Q1S  
Environmental Condition : GB  
Ambient Temperature: 25°C

**Q1S-1150V12 (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         | B105650002     | BOM          | SPECIAL       | 1     | 0.265242                                              | 0.265242                                         |
| 2         | B105650003     | BOM          | SPECIAL       | 1     | 0.281320                                              | 0.281320                                         |
| 3         | B200010022     | BOM          | NMIL          | 1     | 0.000438                                              | 0.000438                                         |
| 4         | B200010052     | BOM          | NMIL          | 1     | 0.000326                                              | 0.000326                                         |
| 5         | B200010109     | BOM          | NMIL          | 3     | 0.000798                                              | 0.002394                                         |
| 6         | B200010185     | BOM          | NMIL          | 2     | 0.031875                                              | 0.063750                                         |
| 7         | B200010192     | BOM          | NMIL          | 1     | 0.008827                                              | 0.008827                                         |
| 8         | B200010229     | BOM          | NMIL          | 1     | 0.000281                                              | 0.000281                                         |
| 9         | B200010230     | BOM          | NMIL          | 1     | 0.031875                                              | 0.031875                                         |
| 10        | B200020038     | BOM          | NMIL          | 1     | 0.001350                                              | 0.001350                                         |
| 11        | B200030063     | BOM          | NMIL          | 2     | 0.007617                                              | 0.015234                                         |
| 12        | B200040073     | BOM          | NMIL          | 6     | 0.005967                                              | 0.035802                                         |
| 13        | B200040116     | BOM          | NMIL          | 1     | 0.016111                                              | 0.016111                                         |
| 14        | B200040126     | BOM          | NMIL          | 4     | 0.016111                                              | 0.064444                                         |
| 15        | B200050069     | BOM          | NMIL          | 2     | 0.005218                                              | 0.010436                                         |
| 16        | B200060025     | BOM          | NMIL          | 1     | 0.008457                                              | 0.008457                                         |
| 17        | B200110016     | BOM          | NMIL          | 1     | 0.004650                                              | 0.004650                                         |
| 18        | B200110042     | BOM          | NMIL          | 3     | 0.004650                                              | 0.013950                                         |
| 19        | B200110223     | BOM          | NMIL          | 6     | 0.005115                                              | 0.030690                                         |
| 20        | B200110261     | BOM          | NMIL          | 1     | 0.004650                                              | 0.004650                                         |
| 21        | B200110488     | BOM          | NMIL          | 1     | 0.004650                                              | 0.004650                                         |
| 22        | B200110503     | BOM          | NMIL          | 1     | 0.005115                                              | 0.005115                                         |
| 23        | B200110512     | BOM          | NMIL          | 2     | 0.004650                                              | 0.009300                                         |
| 24        | B200110554     | BOM          | NMIL          | 1     | 0.004650                                              | 0.004650                                         |

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|    |            |     |      |   |          |          |
|----|------------|-----|------|---|----------|----------|
| 25 | B200110640 | BOM | NMIL | 1 | 0.004650 | 0.004650 |
| 26 | B200120199 | BOM | NMIL | 1 | 0.005425 | 0.005425 |
| 27 | B200160021 | BOM | NMIL | 1 | 0.065000 | 0.065000 |
| 28 | B200170062 | BOM | NMIL | 2 | 0.002700 | 0.005400 |
| 29 | B200180075 | BOM | NMIL | 2 | 0.009327 | 0.018654 |
| 30 | B200190035 | BOM | NMIL | 2 | 0.015889 | 0.031778 |
| 31 | B200200156 | BOM | NMIL | 1 | 0.011856 | 0.011856 |
| 32 | B200220018 | BOM | NMIL | 2 | 0.012681 | 0.025362 |
| 33 | B200220036 | BOM | NMIL | 1 | 0.013891 | 0.013891 |
| 34 | B200220040 | BOM | NMIL | 2 | 0.011536 | 0.023072 |
| 35 | B200220046 | BOM | NMIL | 1 | 0.011536 | 0.011536 |
| 36 | B200220054 | BOM | NMIL | 1 | 0.004262 | 0.004262 |
| 37 | B200220063 | BOM | NMIL | 1 | 0.012681 | 0.012681 |
| 38 | B200220077 | BOM | NMIL | 1 | 0.001291 | 0.001291 |
| 39 | B200220078 | BOM | NMIL | 1 | 0.001531 | 0.001531 |
| 40 | B200220079 | BOM | NMIL | 1 | 0.004648 | 0.004648 |
| 41 | B200230026 | BOM | NMIL | 1 | 0.050508 | 0.050508 |
| 42 | B200230350 | BOM | NMIL | 1 | 0.144509 | 0.144509 |
| 43 | B200230424 | BOM | NMIL | 2 | 0.052193 | 0.104386 |
| 44 | B200230445 | BOM | NMIL | 2 | 0.029130 | 0.058260 |
| 45 | B200240008 | BOM | NMIL | 1 | 0.018846 | 0.018846 |
| 46 | B200250047 | BOM | NMIL | 1 | 0.023160 | 0.023160 |
| 47 | B200260016 | BOM | NMIL | 1 | 0.027440 | 0.027440 |
| 48 | B200260255 | BOM | NMIL | 1 | 0.027440 | 0.027440 |
| 49 | B200260375 | BOM | NMIL | 1 | 0.027440 | 0.027440 |
| 50 | B200280012 | BOM | NMIL | 1 | 0.015958 | 0.015958 |
| 51 | B200290015 | BOM | NMIL | 4 | 0.013740 | 0.054960 |
| 52 | B200300422 | BOM | NMIL | 1 | 0.003845 | 0.003845 |
| 53 | B200300429 | BOM | NMIL | 1 | 0.026144 | 0.026144 |
| 54 | B210160065 | BOM | NMIL | 1 | 0.010000 | 0.010000 |
| 55 | B210192222 | BOM | NMIL | 1 | 0.024851 | 0.024851 |

Total Failure Rate (F/10<sup>6</sup>Hrs) : 1.742726  
Mean Time (in hours) Between Failures (MTBF) : **573,814**

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