

ZIPPY TECHNOLOGY CORP  
10F, No.50, MIN CHYUAN RD  
XINDIAN DIST., NEW TAIPEI CITY, TAIWAN, R.O.C.  
RELIABILITY PREDICTION STANDARD REPORT  
(Sorted by Part Number)  
MIL - HDBK - 217F, Notice 2

Date : JUN-27-2014      Time : 14:45:23  
End Item Title : M1X SERIES MTBF  
End Item Part Number : M1X-3552V (RoHS)  
M1X-3552V (RoHS) MTBF : 118,101  
Module Title : ZIPPY TECHNOLOGY CORP  
Module Part Number : M1X / MTBF  
Module Reference Designation : M1X  
Environmental Condition : GB  
Ambient Temperature: 25°C

**M1X-3552V (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         | B102130002     | BOM          | NMIL          | 1     | 0.074349                                              | 0.074349                                         |
| 2         | B102720004     | BOM          | NMIL          | 1     | 0.069564                                              | 0.069564                                         |
| 3         | B104730002     | BOM          | NMIL          | 1     | 0.220751                                              | 0.220751                                         |
| 4         | B104730015     | BOM          | NMIL          | 1     | 0.197783                                              | 0.197783                                         |
| 5         | B104730019     | BOM          | NMIL          | 1     | 0.026430                                              | 0.026430                                         |
| 6         | B200000080     | BOM          | SPECIAL       | 2     | 0.094935                                              | 0.189870                                         |
| 7         | B200000092     | BOM          | SPECIAL       | 1     | 0.089240                                              | 0.089240                                         |
| 8         | B200000144     | BOM          | SPECIAL       | 1     | 0.094935                                              | 0.094935                                         |
| 9         | B200000252     | BOM          | SPECIAL       | 1     | 0.094935                                              | 0.094935                                         |
| 10        | B200000268     | BOM          | SPECIAL       | 1     | 0.094935                                              | 0.094935                                         |
| 11        | B200000276     | BOM          | SPECIAL       | 1     | 0.094935                                              | 0.094935                                         |
| 12        | B200000308     | BOM          | SPECIAL       | 3     | 0.094935                                              | 0.284805                                         |
| 13        | B200000316     | BOM          | SPECIAL       | 1     | 0.094935                                              | 0.094935                                         |
| 14        | B200000443     | BOM          | SPECIAL       | 1     | 0.089240                                              | 0.089240                                         |
| 15        | B200010022     | BOM          | NMIL          | 1     | 0.000162                                              | 0.000162                                         |
| 16        | B200010056     | BOM          | NMIL          | 4     | 0.000116                                              | 0.000464                                         |
| 17        | B200010080     | BOM          | NMIL          | 2     | 0.038916                                              | 0.077832                                         |
| 18        | B200010083     | BOM          | NMIL          | 2     | 0.006810                                              | 0.013620                                         |
| 19        | B200010084     | BOM          | NMIL          | 1     | 0.035532                                              | 0.035532                                         |
| 20        | B200010166     | BOM          | NMIL          | 1     | 0.004410                                              | 0.004410                                         |
| 21        | B200010176     | BOM          | NMIL          | 2     | 0.038916                                              | 0.077832                                         |
| 22        | B200010186     | BOM          | NMIL          | 2     | 0.038916                                              | 0.077832                                         |
| 23        | B200020014     | BOM          | NMIL          | 1     | 0.006751                                              | 0.006751                                         |
| 24        | B200020021     | BOM          | NMIL          | 1     | 0.006751                                              | 0.006751                                         |

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|----|------------|-----|------|----|----------|----------|
| 25 | B200020024 | BOM | NMIL | 12 | 0.005156 | 0.061872 |
| 26 | B200030019 | BOM | NMIL | 1  | 0.007617 | 0.007617 |
| 27 | B200040063 | BOM | NMIL | 1  | 0.015144 | 0.015144 |
| 28 | B200040069 | BOM | NMIL | 1  | 0.002929 | 0.002929 |
| 29 | B200050024 | BOM | NMIL | 1  | 0.005218 | 0.005218 |
| 30 | B200050039 | BOM | NMIL | 1  | 0.005218 | 0.005218 |
| 31 | B200050040 | BOM | NMIL | 4  | 0.005218 | 0.020872 |
| 32 | B200050063 | BOM | NMIL | 1  | 0.064192 | 0.064192 |
| 33 | B200060009 | BOM | NMIL | 1  | 0.013731 | 0.013731 |
| 34 | B200090005 | BOM | NMIL | 1  | 0.001518 | 0.001518 |
| 35 | B200110001 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 36 | B200110021 | BOM | NMIL | 2  | 0.004650 | 0.009300 |
| 37 | B200110035 | BOM | NMIL | 2  | 0.004650 | 0.009300 |
| 38 | B200110040 | BOM | NMIL | 11 | 0.004650 | 0.051150 |
| 39 | B200110042 | BOM | NMIL | 2  | 0.004650 | 0.009300 |
| 40 | B200110046 | BOM | NMIL | 7  | 0.004650 | 0.032550 |
| 41 | B200110120 | BOM | NMIL | 3  | 0.004650 | 0.013950 |
| 42 | B200110141 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 43 | B200110172 | BOM | NMIL | 4  | 0.004650 | 0.018600 |
| 44 | B200110177 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 45 | B200110190 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 46 | B200110202 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 47 | B200110227 | BOM | NMIL | 6  | 0.004650 | 0.027900 |
| 48 | B200110231 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 49 | B200110251 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 50 | B200110261 | BOM | NMIL | 2  | 0.004650 | 0.009300 |
| 51 | B200110270 | BOM | NMIL | 2  | 0.004650 | 0.009300 |
| 52 | B200110276 | BOM | NMIL | 2  | 0.004650 | 0.009300 |
| 53 | B200110282 | BOM | NMIL | 8  | 0.004650 | 0.037200 |
| 54 | B200110303 | BOM | NMIL | 4  | 0.005115 | 0.020460 |
| 55 | B200110309 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 56 | B200110313 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 57 | B200110340 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 58 | B200110343 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 59 | B200110348 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 60 | B200110354 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 61 | B200110422 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 62 | B200110463 | BOM | NMIL | 1  | 0.005115 | 0.005115 |
| 63 | B200110487 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 64 | B200110489 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 65 | B200110490 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 66 | B200110494 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 67 | B200110517 | BOM | NMIL | 1  | 0.004650 | 0.004650 |
| 68 | B200110541 | BOM | NMIL | 1  | 0.004650 | 0.004650 |

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|-----|------------|-----|------|---|----------|----------|
| 69  | B200110544 | BOM | NMIL | 1 | 0.004650 | 0.004650 |
| 70  | B200110626 | BOM | NMIL | 1 | 0.004650 | 0.004650 |
| 71  | B200110627 | BOM | NMIL | 1 | 0.005115 | 0.005115 |
| 72  | B200110635 | BOM | NMIL | 1 | 0.004650 | 0.004650 |
| 73  | B200110907 | BOM | NMIL | 3 | 0.004650 | 0.013950 |
| 74  | B200110908 | BOM | NMIL | 1 | 0.004650 | 0.004650 |
| 75  | B200120015 | BOM | NMIL | 1 | 0.007557 | 0.007557 |
| 76  | B200120017 | BOM | NMIL | 1 | 0.009576 | 0.009576 |
| 77  | B200120154 | BOM | NMIL | 1 | 0.008509 | 0.008509 |
| 78  | B200120162 | BOM | NMIL | 1 | 0.007735 | 0.007735 |
| 79  | B200160011 | BOM | NMIL | 1 | 0.065000 | 0.065000 |
| 80  | B200160017 | BOM | NMIL | 1 | 0.065000 | 0.065000 |
| 81  | B200170020 | BOM | NMIL | 3 | 0.004875 | 0.014625 |
| 82  | B200170026 | BOM | NMIL | 3 | 0.004875 | 0.014625 |
| 83  | B200180075 | BOM | N/A  | 3 | 0.008923 | 0.026769 |
| 84  | B200190033 | BOM | N/A  | 1 | 0.013308 | 0.013308 |
| 85  | B200190035 | BOM | N/A  | 1 | 0.015889 | 0.015889 |
| 86  | B200200057 | BOM | N/A  | 2 | 0.018108 | 0.036216 |
| 87  | B200200060 | BOM | N/A  | 2 | 0.012930 | 0.025860 |
| 88  | B200200061 | BOM | N/A  | 3 | 0.008470 | 0.025410 |
| 89  | B200200066 | BOM | N/A  | 1 | 0.010911 | 0.010911 |
| 90  | B200200069 | BOM | N/A  | 1 | 0.006575 | 0.006575 |
| 91  | B200200074 | BOM | N/A  | 4 | 0.015274 | 0.061096 |
| 92  | B200200078 | BOM | N/A  | 1 | 0.010037 | 0.010037 |
| 93  | B200200083 | BOM | N/A  | 2 | 0.007144 | 0.014288 |
| 94  | B200200156 | BOM | N/A  | 5 | 0.011856 | 0.059280 |
| 95  | B200200158 | BOM | N/A  | 3 | 0.007791 | 0.023373 |
| 96  | B200220021 | BOM | N/A  | 1 | 0.002337 | 0.002337 |
| 97  | B200220028 | BOM | N/A  | 3 | 0.002647 | 0.007941 |
| 98  | B200220041 | BOM | N/A  | 1 | 0.002198 | 0.002198 |
| 99  | B200230036 | BOM | N/A  | 1 | 0.047478 | 0.047478 |
| 100 | B200230149 | BOM | N/A  | 1 | 0.051532 | 0.051532 |
| 101 | B200230198 | BOM | N/A  | 5 | 0.054717 | 0.273585 |
| 102 | B200230276 | BOM | N/A  | 1 | 0.025769 | 0.025769 |
| 103 | B200230277 | BOM | N/A  | 2 | 0.039003 | 0.078006 |
| 104 | B200230288 | BOM | N/A  | 1 | 0.018091 | 0.018091 |
| 105 | B200230335 | BOM | N/A  | 1 | 0.167943 | 0.167943 |
| 106 | B200230336 | BOM | N/A  | 1 | 0.023884 | 0.023884 |
| 107 | B200230338 | BOM | N/A  | 4 | 0.027382 | 0.109528 |
| 108 | B200230384 | BOM | N/A  | 2 | 0.042772 | 0.085544 |
| 109 | B200250009 | BOM | NMIL | 1 | 0.021770 | 0.021770 |
| 110 | B200260127 | BOM | NMIL | 1 | 0.025794 | 0.025794 |
| 111 | B200260204 | BOM | NMIL | 1 | 0.025794 | 0.025794 |
| 112 | B200260245 | BOM | NMIL | 1 | 0.025794 | 0.025794 |

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|-----|------------|-----|----------|---|----------|----------|
| 113 | B200260251 | BOM | NMIL     | 1 | 0.025794 | 0.025794 |
| 114 | B200280012 | BOM | NMIL     | 2 | 0.015958 | 0.031916 |
| 115 | B200290009 | BOM | NMIL     | 2 | 0.013740 | 0.027480 |
| 116 | B200300166 | BOM | NMIL     | 1 | 0.003614 | 0.003614 |
| 117 | B200300219 | BOM | NMIL     | 1 | 0.003614 | 0.003614 |
| 118 | B200300237 | BOM | NMIL     | 1 | 0.003614 | 0.003614 |
| 119 | B200300238 | BOM | NMIL     | 1 | 0.024575 | 0.024575 |
| 120 | B200310004 | BOM | NMIL     | 1 | 0.028764 | 0.028764 |
| 121 | B210140037 | BOM | KNOWNFR  | 2 | 2.070550 | 4.141100 |
| 122 | B210160059 | BOM | N/A      | 1 | 0.010000 | 0.010000 |
| 123 | B210191721 | N/A | STANDARD | 1 | 0.020588 | 0.020588 |
| 124 | B210191722 | N/A | STANDARD | 1 | 0.022077 | 0.022077 |

|                                                |                |
|------------------------------------------------|----------------|
| Total Failure Rate (F/10 <sup>6</sup> Hrs) :   | 8.467357       |
| Mean Time (in hours) Between Failures (MTBF) : | <b>118,101</b> |