

Reliability Report

Extended Test mSATA SSD (MLC)



Product Information

| Product Name | mSATA SSD |
|----------------------|---|
| Ordering Information | NSMS51U032-ET NSMS51U064-ET NSMS51U128-ET |
| Grade Temperature | Extended Test: 0 ~ 70°C |

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MTBF

Sample size: 100 pcs

Test conditions: 65°C

Pass/fail criteria: MTBF to 2,500,000 hours

| Arrhenius Temperature Accelerated Model (Confidence Level: 60%) | | | | | |
|---|------------------|------|--------------------|---------------|-------|
| Parameter | Value | Unit | Parameter | Value | Unit |
| Ambient Temp. (T2) | 308.00 | °K | Ambient Temp. (T2) | 35 | °C |
| Chamber Temp. (T1) | 338.00 | °K | Chamber Temp. (T1) | 65 | °C |
| Activation Energy (Ea) | 1.1 | eV | Total Test Time | 70,000 | hours |
| Boltzman Constant (K) | 0.00008623 | | Failure Quantity | 0 | units |
| Acceleration Factor (A) | 39.4923 | | Test Ratio | 0.9163 | |
| MTBF | 3,016,986 | | | | |

| Arrhenius Temperature Accelerated Model (Confidence Level: 60%) | | | |
|---|----------|----------|---------------|
| | Quantity | Time | Total |
| Passed Samples | 100 | 700 | 70,000 |
| Failed Samples | 0 | 0 | 0 |
| Subtotal | 0 | - | 70,000 |

mSATA Endurance Evaluation

| mSATA | JEDEC workload |
|---------------|----------------|
| Capacity (GB) | Endurance (TB) |
| 32GB | Up to 30 TB |
| 64GB | Up to 60 TB |
| 128GB | Up to 120 TB |

Note: TBW value is derived from JEDEC based on population of SSDs statistics.

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