

mSATA

SME3B



GENERAL INFORMATION

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| TYPE | mSATA |
| INTERFACE | Serial ATA Revision 2.6 |
| DATA TRANSFER MODE | SATA 1.5Gbps, 3.0Gbps |
| CONNECTOR | 52 pin. Edge |
| OUTLINE DIMENSIONS | 50.8 x 29.85 mm |
| SERIES | SME3B |
| CONTROLLER TYPE |  TDK GBDriver RS3 |
| FLASH TYPE | SLC |
| DENSITY RANGE | 512 MB - 8 GB |
| DATA RETENTION | 10 years @ life begin-10% 1 year @ life end |
| ENDURANCE ENTERPRISE WL | 512 MB ~ 8 GB: 50,000 P/E Cycles *Flash Block Level |

TEMPERATURE

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|-----------------------|--|
| OPERATING TEMPERATURE | Commercial: 0°C to +70°C Industrial: -40°C to +85°C |
| STORAGE TEMPERATURE | Commercial: -25°C to +85°C Industrial: -40°C to +85°C |

PERFORMANCE

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|--------------|---------------|
| Read (max.) | 105 MByte/sec |
| Write (max.) | 60 MByte/sec |

ROBUSTNESS

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|-----------|--------------------------------|
| MTBF | ≥ 2,000,000 hours |
| SHOCK | 1500G, 0.5ms |
| VIBRATION | 20G, 10-2000Hz |
| HUMIDITY | 0 to 90 % RH (No condensation) |

ELECTRICAL DATA

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|-------------------|---|
| VOLTAGE | 3.3 V ± 5 % |
| POWER CONSUMPTION | - Single mode Read Write: 125mA max. - 2ch mode Read Write: 215mA max. - 4ch mode Read Write: 365mA max. - Slumber: less than 50mA |

FEATURE LIST

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|------------------|---|
| FEATURES & TOOLS | - In-House Designed Controller (HW/FW) - Power Fail Data Safety - Global static wear levelin - SMART - NCQ, TRIM - AES 128bit encryption |
| PART NUMBER | SME3BxxxxTxxxB00SAA0 |