

mSATA

SME1B



GENERAL INFORMATION

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|----------------------------|--|--|
| TYPE | mSATA | |
| INTERFACE | Serial ATA Revision 3.1 | |
| DATA TRANSFER MODE | SATA 1.5Gbps, 3.0Gbps, 6.0Gbps | |
| CONNECTOR | 52 pin. Edge | |
| OUTLINE DIMENSIONS | 50.8 x 29.85 mm | |
| SERIES | SME1B | |
| CONTROLLER TYPE |  TDK GBDriver GS1 | |
| FLASH TYPE | SLC | pSLC/MLC |
| DENSITY RANGE | 16 GB - 64 GB | pSLC:16 GB - 128 GB MLC:32 GB - 256 GB |
| DATA RETENTION | 10 years @ life begin-10% 1 year @ life end | |
| ENDURANCE ENTERPRISE WL | 100,000 P/E Cycles *Flash Block Level | pSLC:20,000 P/E Cycles MLC:3,000 P/E Cycles *Flash Block Level |

TEMPERATURE

| | |
|-----------------------|--|
| 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.) | 340 MByte/sec | pSLC:345 MByte/sec MLC:295 MByte/sec |
| Write (max.) | 105 MByte/sec | pSLC:145 MByte/sec MLC:75 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 | <ul style="list-style-type: none"> - Read:385mA max. - Write:370mA max. - Slumber:less than 100mA |

FEATURE LIST

| | | |
|------------------|---|----------------------|
| FEATURES & TOOLS | <ul style="list-style-type: none"> - In-House Designed Controller (HW/FW) - Power Fail Data Safety - Power Back-up Circuit - Global static wear leveling - SMART - NCQ, TRIM - AES 128/256bit encryption | |
| PART NUMBER | SME1BxxxxTXDxB00SAA0 | SME1BxxxxTxDxB00SAA0 |