


#### SME3B



#### GENERAL INFORMATION

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	50,000 P/E Cycles
ENTERPRISE WL	*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

Read (max.)	160 MByte/sec
Write (max.)	80 MByte/sec

#### ROBUSTNESS

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

#### ELECTRICAL DATA

VOLTAGE	3.3 V ± 5 %
POWER CONSUMPTION (*RT)	- Read Write: 160 / 275 / 470mA max. (Single / 2ch / 4ch) - Slumber: less than 50mA

#### FEATURE LIST

FEATURES & TOOLS	<ul style="list-style-type: none"> <li>- In-House Designed Controller</li> <li>- DRAM-less Design</li> <li>- Power Fail Data Safety</li> <li>- Global static wear leveling                             <ul style="list-style-type: none"> <li>- SMART</li> <li>- NCQ, TRIM</li> </ul> </li> <li>- AES 128bit encryption (on request)</li> </ul>
PART NUMBER	SME3BxxxTxxxB00SSA0