


SME1B



GENERAL INFORMATION

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	16 GB - 128 GB	32 GB - 256 GB
DATA RETENTION	10 years @ life begin-10% 1 year @ life end		
ENDURANCE	100,000 P/E Cycles	20,000 P/E Cycles	3,000 P/E Cycles
ENTERPRISE WL	*Flash Block Level	*Flash Block Level	*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.)	340 MByte/sec	345 MByte/sec	295 MByte/sec
Write (max.)	105 MByte/sec	145 MByte/sec	75 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: 385mA max. - Write: 370mA max. - Slumber: less than 100mA

FEATURE LIST

FEATURES & TOOLS	<ul style="list-style-type: none"> - In-House Designed Controller <ul style="list-style-type: none"> - DRAM-less Design - Power Fail Data Safety - Power Back-up Circuit - Global static wear leveling <ul style="list-style-type: none"> - SMART - NCQ, TRIM - AES 128/256bit encryption (on request)
PART NUMBER	SME1BxxxxTXDxB00SSA0 SME1BxxxxTKDxB00SSA0 SME1BxxxxTFDxB00SSA0