


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