

mSATA

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 ENTERPRISE WL	512 MB ~ 8 GB: 50,000 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

Read (max.)	105 MByte/sec
Write (max.)	60 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	- Single mode Read Write: 125mA max. - 2ch mode Read Write: 215mA max. - 4ch mode Read Write: 365mA max. - Slumber: less than 50mA

FEATURE LIST

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