



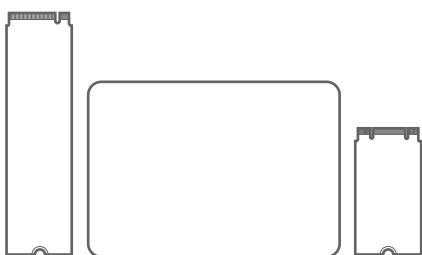
Embedded Solutions

mSATA SSD

Supporting the next-generation SATA interface and built around a powerful controller, Transcend's mSATA and mSATA mini SSDs deliver blazing-fast performance and long-term reliability. The compact mSATA form factor is just one-eighth the size of a standard 2.5" SSD, making it perfect for use in space-constricted portable devices such as ultrabooks, tablet PCs, and slim servers. Fully compliant with mSATA specifications, Transcend's mSATA mini SSDs deliver the full performance benefits of SSD technology while measuring just 26.8 x 29.85 x 3.85 (mm) in size, making it ideal for use in small form factor devices.

Features

- RoHS compliant
- Suitable for wide-temperature applications (industrial versions available upon request)
- Built-in Power Shield prevents data loss in the event of a sudden power outage (MSA520 not supported)
 - Supports Intel® Smart Response Technology (ISRT) and DEVSLP (MSA370)
- SuperMLC technology of Transcend to make the MLC NAND act as high-speed SLC NAND (MSA510)
- Optional support for Write Protect and Hardware Purge security functions
 - Supports AHCI mode, TRIM commands and NCQ



Specifications



	mSATA SSD							
	MSA370	MSA370I	MSA510	MSA570	MSM360	MSA520	MSA630	MSM610
Interface	SATA III 6Gb/s					SATA III 3Gb/s		
Flash Type	MLC		SUPER MLC	SLC	MLC	SLC	MLC	
Connector	mSATA 52-pin							
Form Factor	MO-300							
Capacity	16GB~1TB	32GB~64GB	16GB~64GB	4GB~16GB	16GB~128GB	4GB	16GB~64GB	8GB~32GB
Sequential Read*	570 MB/s	450 MB/s	570 MB/s	290 MB/s	520 MB/s	51 MB/s	260 MB/s	150 MB/s
Sequential Write*	460 MB/s	80 MB/s	320 MB/s	110 MB/s	220 MB/s	45 MB/s	80 MB/s	40 MB/s
Operating Temperature	0°C~70°C**	-40°C~85°C	0°C~70°C**					
Storage Temperature	-40°C~85°C							
Humidity	0%~95%							
Shock	1500G, 0.5ms, 3 axis							
Vibration	3G, 5Hz to 800Hz (operating) / 5G, 5Hz to 800Hz (non-operating)							
Operating Voltage	3.3V±5%							
Power Consumption	2.5W (active), 0.5W (idle)			1.4W (active), 0.65W (idle)	2.5W (active), 0.5W (idle)	1.4W (active), 0.65W (idle)	2.5W (active), 0.5W (idle)	1.4W (active), 0.65W (idle)
Dimensions (max.)	50.8 x 29.85 x 4.85mm				26.8 x 29.85 x 3.85mm	50.8 x 29.85 x 4.85mm	50.8 x 29.85 x 3.7mm	26.8 x 29.85 x 3.85mm
MTBF	1,500,000 hours		1,000,000 hours	1,500,000 hours	1,000,000 hours			
Warranty	Three-year Limited Warranty							

*Maximum performance shown. Performance varies by capacity, user hardware, and system configuration.

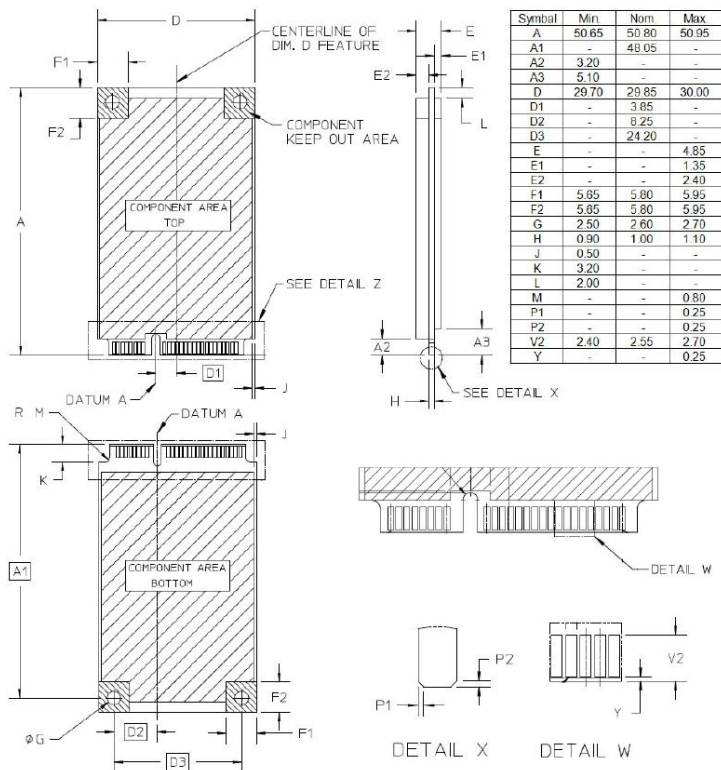
**Wide temperature (-40°C~85°C) available by request.

Ordering Information

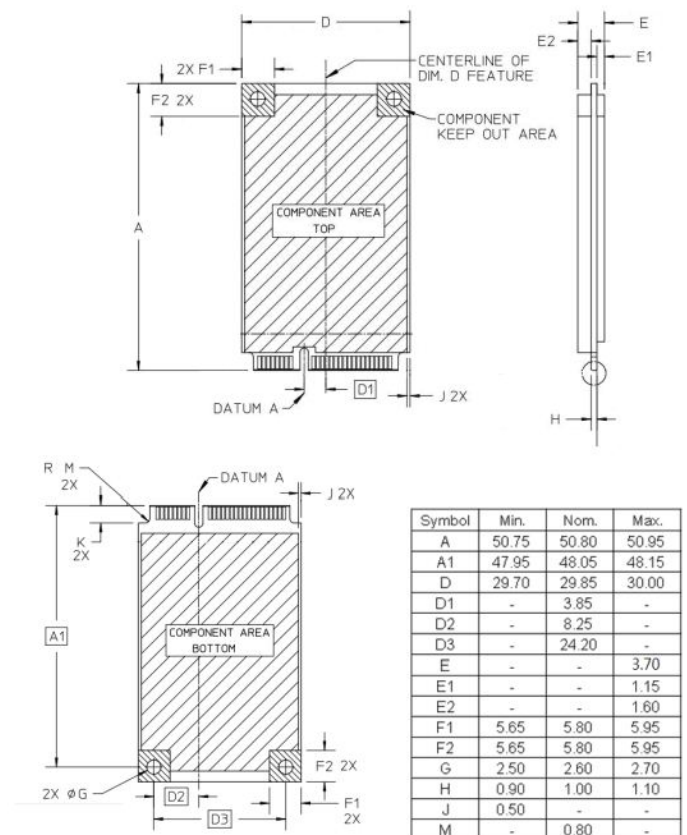
MSA370	MLC	TS16GMSA370	16GB	MSA510	SUPER MLC	TS8GMSA510	8GB	MSM360	MLC	TS16GMSM360	16GB
		TS32GMSA370	32GB			TS16GMSA510	16GB			TS32GMSM360	32GB
		TS64GMSA370	64GB			TS32GMSA510	32GB			TS64GMSM360	64GB
		TS128GMSA370	128GB			TS64GMSA510	64GB			TS128GMSM360	128GB
		TS256GMSA370	256GB			TS128GSSD570K	128GB			TS256GMSM360	256GB
		TS512GMSA370	512GB			TS4GMSA570	4GB			MSA520	SLC
		TS1TMSA370	1TB	MSA570	SLC	TS8GMSA570	8GB	MSA630	MLC	TS16GMSA630	16GB
		TS32GMSA370I	32GB			TS16GMSA570	16GB			TS32GMSA630	32GB
		TS64GMSA370I	64GB			TS32GMSA570	32GB			TS64GMSA630	64GB
										TS8GMSM610	8GB
				MSM610	MLC	TS16GMSM610	16GB				
						TS32GMSM610	32GB				

Drawing

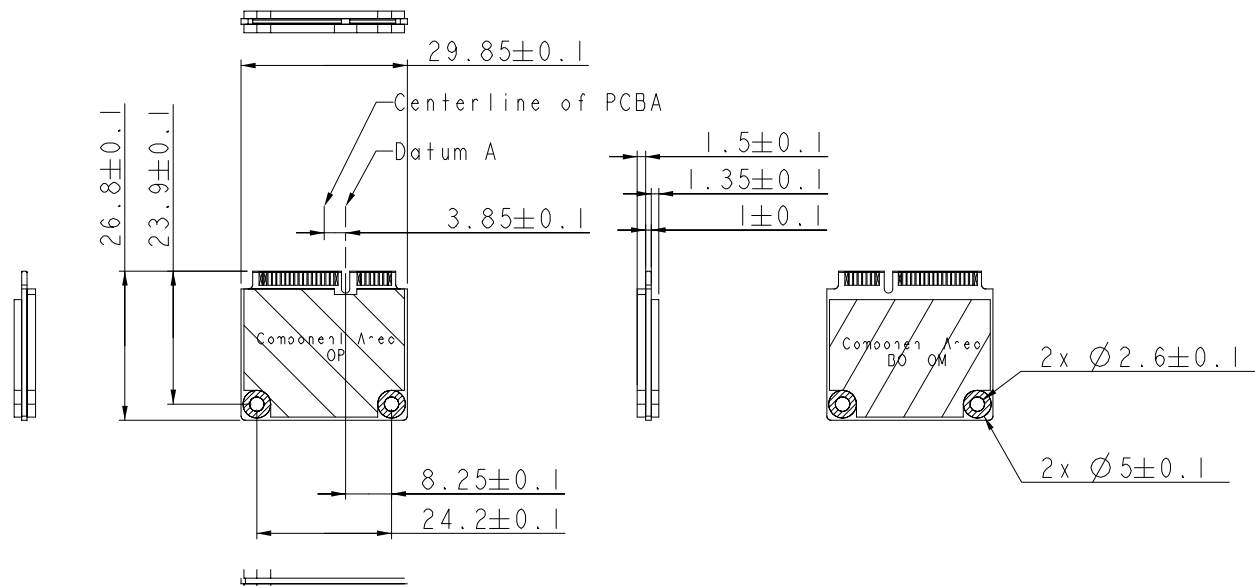
MSA370/MSA370I/MSA510/MSA520



MSA630



MSM360/MSM610



Tailored Options Available



Intelligent Power Shield



AES Encryption



Underfill



Conformal Coating

Custom orders welcome!

Please feel free to contact us with any special requests you might have.

Tel: +886-2-2792-8000 sales-inquiry@transcend-info.com

