SpecTek® Buyers Guides

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SpecTek Buyers Guide >> NAND

Grade	Product Type	Yield	Customer Application	RMA Policy	Technical Notes	Web Links
AS	Package	~ 97%	PCIe/SATA Consumer SSDs, USB/SD	YES – 90 Days Warranty < 1,000pcs RMAs NOT Accepted	 Datasheet Support. Use Factory Marked Blocks Sample MPN: FBNN48R4T1KLMAEJ4-AS 	RMA Rapid Response
PG	Package	~ 45% (140s only) ~ 70% (150s & Newer)	SATA Consumer SSDs, USB/ SD	NO RMA: will only review cases if yield loss is significant	 NVB Not Guaranteed. Sorting Needed No Datasheet, Single/double plane firmware recommended Sample MPN: FBMB27A8T0KTWAFM5-PG 	NAND Component/Die/W afer Part Number Guide
UT	Package	~ 80%	PCIe/SATA Consumer SSDs, USB/SD	NO RMA: will only review cases if yield loss is significant	 NVB Not Guaranteed. Sorting Needed No Datasheet Sample MPN: FBMB47R8T0KLWAEM5-UT 	Online Decoder Device Markings
EO	Uncut Wafer	~ 95%	PCIe/SATA Consumer SSDs, USB/SD, Mobile	NO RMA on Wafer/Die	 Datasheet Support. Use Factory Marked Blocks Wafer Maps and Bonding Diagram available Sample MPN: WCVM60ANNNXAA-NA<u>EO</u>A 	SpecTek Datasheets Roadmap
<u>E8</u>	Cut Die on Reconstructed Wafer	~ 80%	PCIe/SATA Consumer SSDs, USB/SD	NO RMA on Wafer/Die	 Bonding Diagram Only. Sorting Needed Sample MPN: W1UB47RDUNXNZ-NA<u>E8</u>U 	Questions / Feedback
<u>E5</u>	Cut Die on Reconstructed Wafer	~ 50%	Consumer SATA SSDs, USB/SD	NO RMA on Wafer/Die	 Bonding Diagram Only. Sorting Needed Sample MPN: W3UB47RDUNXNZ-NA<u>E5</u>U 	
<u>E4</u>	Cut Die on Reconstructed Wafer	~ 40%	Consumer SATA SSDs, USB/SD	NO RMA on Wafer/Die	 Bonding Diagram Only. Sorting Needed Sample MPN: WVUB16ADUNXNZ-NA<u>E4</u>U 	
<u>EW</u>	Carcass Die on Uncut Wafer	N/A	N/A	NO RMA on Wafer/Die	Bonding Diagram Only. Sorting NeededSample MPN: WBUN58RDBNXNZ-NA<u>EW</u>A	
<u>EX</u>	Carcass Die	N/A	N/A	NO RMA on Wafer/Die	 Die Left on blue tape after all Micron and SpecTek die picked Sample MPN: WBUL84DDBNXNZ-NAEXA 	

General Support Notes (READ):

- > Yield estimates are averaged and may vary lot to lot. Yields also influenced by controllers and firmware capabilities and validated on limited number of common controllers.
- > Data stored on the media prior to IR Reflow could damage the cell structure and reduce the Program/Erase cycles significantly. It is recommended that all blocks be in the erased state prior to IR Reflow.
- Cosmetic Defects are not covered under SpecTek RMA Policy. All RMAs must be returned in either the original packaging or an ESD safe container(trays, tape and reel) or the RMA may be rejected.
- Consumer SSDs: SSDs with Non-Binary Densities such as 240GB, 480GB, 960GB.

SpecTek Buyers Guide >> NAND >> Approved Controller List

PCle	N58R	B58R	B57T	N48R	B47R	B47T
RTS5772DL (Gen3-4)		>				
RTS5766DL (Gen 3)	√	✓	√	√	✓	√
MAP1202A (Gen 3)	✓				✓	✓
M.2	N58R	B58R	B57T	N48R	B47R	B47T
MAP1602 (Gen 4)	✓	✓				
SM2263XT (Gen 3)				√	√	
SATA	N58R	B58R	B57T	N48R	B47R	B47T
MAS1102B		>		✓	>	✓
PS3111 (include -6)					✓	
RTS5735DL	✓	√	√	✓	√	√
SM2259XT (include -AC, -130)					√	✓
SM2259XT2		√		✓		✓
SM2259XT3	✓					
USB 3.0	N58R	B58R	B57T	N48R	B47R	B47T
AU89103-TA2		√		✓	√	✓
IS918M				✓	√	
IS918EN			√			
SM3265 (include -AC)					√	✓
USB 2.0	N58R	B58R	B57T	N48R	B47R	B47T
AU6998 (include TA, TG, M85)				✓		√
SD Card	N58R	B58R	B57T	N48R	B47R	B47T
AK2705EN (include ENLT)			√		√	

SpecTek Buyers Guide >> DRAM

Grade	Product Type	Yield ¹	Customer Application	RMA Policy	Technical Notes	Web Links
PRN/ PRM	Package	~ 99%	UDIMM, SODIMM CUDIMM / CSODIMM Module	90 Days WarrantyMinimal RMA QTY: 1000 Units	 Fully Tested & Speed Graded Datasheet Support Component Testing Not Required Sample MPN: PRN1G16Z22AD8RC-062E 	 RMA Rapid Response Motherboard Compatibility List
PRN/ PRM OC	Package	N/A	OC UDIMM	 90 Days Warranty (JEDEC Timings Only) Minimal RMA QTY: 1000 Units 	 Fully Tested & Speed Graded Datasheet Support: Refer to JEDEC datasheet Component Testing Recommended ⁴ Sample MPN: PRM2G8Y52KBFRZ-56B 	 DRAM Component Part Numbering Guide Online MPN Decoder
TP	Package	~ 90%	UDIMM / CUDIMM 8-Chip Module	90 Days WarrantyMinimal RMA QTY: 1000 Units	 Datasheet Support (Reference PRN Datasheet) Component Testing Recommended ² Sample MPN: SUU512M16Z11BD8LY-TP 	DRAM Component Mark Reference Laser Mark to MPN
ХСВ	Module	~ 75%	UDIMM / CUDIMM Module	No RMA: will only review cases if yield loss is significant	 Components on module No Datasheet Component Testing Recommended ² Sample MPN:XCB512M8V00HG8DA-MSPD 	<u>Decoder</u><u>SpecTek Datasheets</u><u>Roadmaps</u>
ХСВВ	Module	~ 75%	UDIMM / CUDIMM Module	No RMA: will only review cases if yield loss is significant	 Components on module, reconfigured to 8 bits No Datasheet Component Testing Recommended ² Sample MPN: XCBB512M8V00HG8DA-MSPD 	Questions / Feedback
PG	Package	~ 50%	UDIMM / CUDIMM Module	No RMA: will only review cases if yield loss is significant	 Partially Good components No Datasheet Component Testing Required ³ Sample MPN: SUM1G16Z22AD8RC-PG 	

General Support Notes (READ):

- > Yield 1: Based on MemTest test software.
- Testing Recommended ²: Component testing is recommended prior to assembly.
 Testing Required ³: Customer *must* test the product before assembly.
- Cosmetic Defects are not covered under RMA Policy. All RMAs must be returned in either the original packaging or an ESD safe container(trays, tape and reel) or the RMA may be rejected.
- > Testing Recommended 4 for OC timings above JEDEC rated timings

SpecTek Buyers Guide >> Low Power DRAM & MCPs

Grade	Product Type	Yield	RMA Policy	Technical Notes	Web Links
ВТ	Package	~ 85% - 95%	No RMA: will only review cases if yield loss is significant	 Testing Required. Yield is dependent on application & chipsets May also be referred to as "2P Packages" No Datasheet Sample MPN: SN512M32Z42MD1DNQ-053BT 	 RMA Rapid Response Mobile DRAM Part Numbering Guide
UT	Package	~ 80%	No RMA: will only review cases if yield loss is significant	 Testing Required No Datasheet Sample MPN: SM2G64Z32MD8DTN-UT 	 All-in-One Part Numbering Guide eMMC Part Numbering Guide
PG	Package	~ 50%	No RMA: will only review cases if yield loss is significant	 Testing Required No Datasheet Sample MPN: SM512M32Z42MD1DNQ-PG 	NAND MCP Part Numbering Guide
P2	Uncut Wafer	~ 99%	NO RMA on Wafer/Die	 Wafer Maps and Bonding Diagram Support Sample MPN: WJ3Z0AMNNNAF-<u>P2E0</u>D 	 LPDRAM Wafer/Die Part Numbering Guide Online Decoder SpecTek Datasheets
FP	Cut Die on Reconstructed Wafer	~ 97%	NO RMA on Wafer/Die	 Fully tested good die May also be referred to as "1P dies" Bonding Diagram Support Only Sample MPN: WBFV01MDHAHP-FPE0DD 	 Roadmaps Questions / Feedback
4P	Half Density Cut Die on Reconstructed Wafer	~ 98%	NO RMA on Wafer/Die	 Fully tested Half-Density good die Bonding Diagram Support Only Sample MPN: WBXV01MDHABP-4PE0DD 	

General Support Notes (READ):

- > Target Application: Low-End to Mid Range Tablets, Low-End Mobile Phones, IOT, OTT/STB applications
- Cosmetic Defects are not covered under RMA Policy. All RMAs **must** be returned in either the original packaging or an ESD safe container(trays, tape and reel) or the RMA may be rejected.

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