

# SpecTek DRAM Buyers Guide

Rev. A 11/27/2018

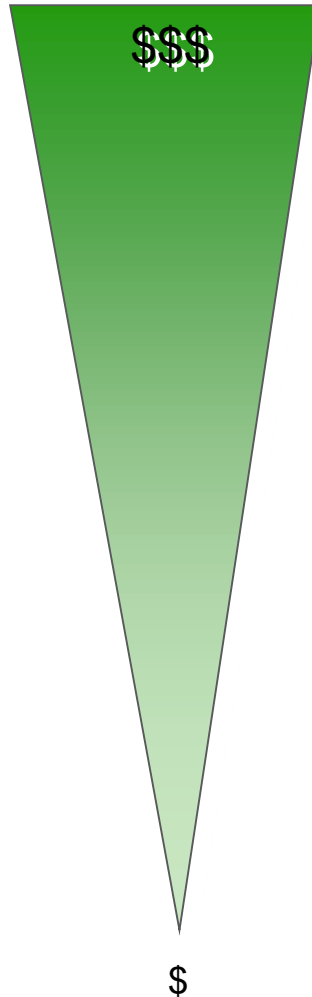
SpecTek Product Management & Support

©2018 Micron Technology, Inc. All rights reserved. Information, products, and/or specifications are subject to change without notice. All information is provided on an "AS IS" basis without warranties of any kind. Statements regarding products, including regarding their features, availability, functionality, or compatibility, are provided for informational purposes only and do not modify the warranty, if any, applicable to any product. Drawings may not be to scale. Micron, the Micron logo, and all other Micron trademarks are the property of Micron Technology, Inc. All other trademarks are the property of their respective owners.



# SpecTek Product Grades Offered

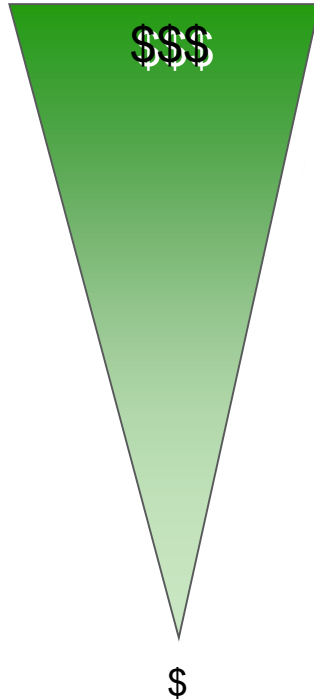
Fully Tested Prefix on Marketing Part Number: **PRN**1G8Z01BD8WE=075E



- **SGG grade**
  - No limitations. 100% Effective Yield. Datasheet support: Yes. Warranty: Yes
  - Customer testing required: **No**
- **SMG grade**
  - No limitations. 100% Effective Yield. Datasheet support: Yes. Warranty: Yes.
  - Customer testing required: **No**
- **PRN/PRA grade**
  - 8 chip UDIMM only. 100% Effective Yield. Datasheet support: Yes. Warranty: Yes
  - Customer testing required: **No**
- **PRM grade**
  - 8 chip UDIMM only, logo blasted. 100% Effective Yield. Datasheet support: Yes
  - Warranty: Yes. Customer testing required: **No**
- **XCB grade**
  - Components are still attached to module. 75% Effective Yield. Datasheet support: NA
  - Warranty: \*Limited. Customer testing: \***Recommended**
- **XCBB grade**
  - Same as XCB but components have been blown to configuration. 75% Effective Yield. Datasheet support: NA
  - Warranty: \*Limited. Customer Testing is \***Recommended**

# SpecTek Product Grades Offered

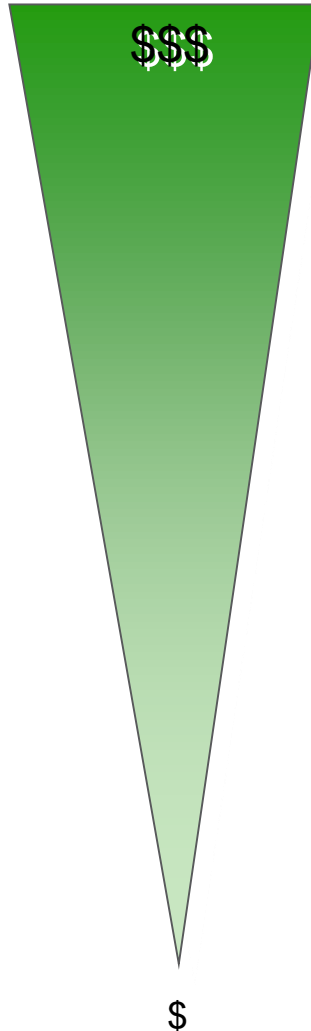
Partially Tested Suffix on Marketing Part Number: Example: SUU1G8Z21CD8SA-093**TP**



- **TP grade**
  - 8 chip modules/MID 95% Effective Yield. Datasheet support: Yes. Warranty: \*Limited
  - Customer testing required: \*Recommended
- **SSWT grade**
  - 8 chip modules only. 85% Effective Yield. Datasheet support: NA. Warranty: \*Limited.
  - Customer testing required: \*Recommended
- **SSSV grade**
  - Post electrical/Cosmetic 85% Effective Yield. Datasheet support: NA. Warranty: \*Limited
  - Customer testing required: \*Recommended
- **DG grade**
  - Mid/Security Camera. 75% Effective Yield. Datasheet support: NA. Warranty: \*Limited
  - Customer testing required: \*Recommended

# SpecTek Product Grades Offered

No Speed Grade Suffix on Marketing Part Number: Example: XAA2G8Z01AD8NRE-SSSK



- **SSHL grade**
  - Untested devices. 50% Effective Yield. Datasheet support: NA. Warranty: \*Limited
  - Customer testing required: \*Yes
- **SSSK grade**
  - Untested devices. 50% Effective Yield. Datasheet support: NA. Warranty: \*Limited.
  - Customer testing required: \*Yes
- **BLSK grade**
  - Untested devices. 25% Effective Yield. Datasheet support: NA. Warranty: \*Limited
  - Customer testing required: \*Yes
- **SS grade**
  - Partially tested off TP flow. 25% Effective Yield. Datasheet support: NA. Warranty: \*Limited
  - Customer testing required: \*Yes
- **SSCL grade**
  - Untested product. 20% Effective Yield. Datasheet support: NA. Warranty: \*Limited
  - Customer testing required: \*Yes

# Quick comparison by Grade

Product Grade	Description	*Effective Yield	Warranty	Testing Required	Data Sheet
SGG/SMG	No Limitations	100%	Yes	No	Yes
PRN/PRA/PRM	8 chip UDIMM only	100%	Yes	No	Yes
XCB/XCBB	Components are still attached to module	75%	*Limited	*Recommended	NA
TP	8 chip module/MID	95%	Limited	Recommended	Yes
SSWT	8 chip modules only	85%	Limited	Recommended	NA
SSSV	Post Electrical/Cosmetic	85%	Limited	Recommended	NA
DG	MID/Security Camera	75%	Limited	Recommended	Yes
SSHL/SSSK	Untested product	50%	Limited	*Yes	NA
BLSK/SS	Untested product	25%	Limited	Yes	NA
SSCL	Untested product	20%	Limited	Yes	NA

\* **Recommended:** Component testing is recommended prior to final form factor.

\* **Yes:** Highly recommended that customer test product before assembling into application, otherwise they may run into difficulties returning a shipment if the product doesn't meet yield.

\* **Effective Yield:** based off an all good device and/or 1/2 good device tested to MemTest standards.

\* **Limited Warranty:** Product is only warranted to the component yield listed as per component tested to qualified application. RMA allowed under these conditions: Fully tested product failures can be returned with no minimum quantity required. For Partially Tested/Untested product an RMA is allowed when purchased amount doesn't meet effective yield and if an RMA is granted then the total amount purchased must be returned. All RMA's must go through the Rapid RMA Response process, as well as the customer fails must be validated prior to an RMA number being granted.

All RMA's must be returned in either the original packaging or an ESD safe container(trays, tape and reel) or the RMA may be rejected.

# Wafer/Die/Carcass Sales

- **Wafer/Die Material**

- Any wafer sale may be accompanied by a Wafer Map or Bonding diagram if requested.
  - Product Categories: Micron Prime, SpecTek First Pass, Second Pass, Half Good
  - After Sales Support: SpecTek Maps, Bonding Diagram or die datasheets when available
  - Wafer/Die MPN Decoder: [https://www.spectek.com/pdfs/SpecTek\\_pns\\_Wafer\\_Die.pdf](https://www.spectek.com/pdfs/SpecTek_pns_Wafer_Die.pdf)

- **Carcass Wafers**

- Carcass is the die left on the blue tape after Micron and SpecTek have removed any die that they wish to process.
- Please be aware that Carcass wafers are the lowest level of product that SpecTek sells. Use the datasheet from the same Cell Technology and Process Node for reference purposes only.
- No warranty of any kind is provided.

# References

**RMA:** All quality and RMA requests will need to go through the RMA rapid response page:

- [RMA Rapid Response](#)

**Motherboard Compatibility:**

- [Motherboard Compatibility List](#)

**Decoders:**

- [DRAM Components MPN Decoder](#)
- [Wafer/Die DRAM Decoder](#)
- [Online MPN Decoder](#)
- [DRAM Component Mark Reference](#)
- [Laser Mark to MPN Decoder](#)

**Sample Request Form:**

- [DRAM Sample Request Page](#)

*Datasheets and More on [SpecTek DRAM](#) page...*

