

Wolfspeed® Product/Process Change Notification

PCN Number: PCN-00089	PCN Issue Date: November 9, 2023
PCN Type: Major	

PCN Title

Manufacturing of Power Modules on 200-mm Wafers at the Mohawk Valley Fabrication (MVF) Facility

Description of the Change

Wolfspeed’s silicon carbide (SiC) power modules are currently manufactured on 150-mm wafers at Wolfspeed’s fabrication facilities in RTP and Durham, North Carolina, USA. To increase its production capacity, Wolfspeed will utilize its state-of-the art 200-mm wafer Mohawk Valley Fabrication (MVF) facility in New York.

Benefit of the Change

The MVF facility will provide substantial capacity expansion and world-class automation to drive throughput and high quality to support its customers for various power applications.

Affected Products

Table 1 lists the power modules affected by this Major PCN. Any new modules introduced after the publication of this PCN will include multi-fab manufacturing.

Table 1. Affected Products List.

Wolfspeed Part Numbers		
CAB011M12FM3/T	CAB006A12GM3/T	EAB450M12XM3
CAB016M12FM3/T	CAB006M12GM3/T	CAB450M12XM3
CBB021M12FM3/T	CAB008A12GM3/T	
CBB032M12FM3/T	CAB008M12GM3/T	
CCB021M12FM3/T	CAB011A12GM3/T	
CCB032M12FM3/T	CCB016M12GM3/T	

*Please note, Pre-Applied TIM Part Numbers have a “/T” as the last digit.

Qualification Report and Status

Per request, Wolfspeed will deliver its qualification report associated with this PCN and any requested samples.

Anticipated Impact

There is no impact to form, fit, and/or function due to equipment upgraded for 200-mm MVF wafers. Qualification and characterization activities have been performed to ensure no impact to the products listed in Table 1. The affected part numbers are expected to retain the same datasheet specification limits.

Sample Status

Qualification samples can be made available by request via the PCN contact (see Table 3) for the part(s) affected by this change.

Implementation Date

Table 2 provides the estimated dates for key PCN milestones based on the information available on the date this PCN is issued. Any updates to these dates can be provided by your Wolfspeed contact.

Table 2. Estimated Key PCN Dates.

Wolfspeed Part Number	(Projected) Completion Date for the Qualification Report	(Projected) Sample Date	(Projected) First Ship Date
EAB450M12XM3	10/16/2023	11/06/2023	11/06/2023
CAB450M12XM3	Beginning December 2023	Beginning January 2024	Beginning January 2024
CCB021M12FM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CBB021M12FM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CAB011M12FM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CCB032M12FM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CBB032M12FM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CAB016M12FM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CCB016M12GM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024

CAB011A12GM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CAB008M12GM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CAB008A12GM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CAB006M12GM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024
CAB006A12GM3/T	Beginning February 2024	Beginning February 2024	Beginning March 2024

* Specific product schedules should be discussed with Wolfspeed sales and marketing representatives.

Customer Acknowledgement

Customer is requested to acknowledge this notification within 30 days from its issue date by signing this PCN, scanning it into a pdf file, and emailing the file and any feedback to Wolfspeed at PCN@wolfspeed.com. Note that Wolfspeed references the JEDEC J-STD-046 guidelines for its PCNs. In accordance with J-STD-046, this change is deemed acceptable to the customer if no acknowledgement is received within 30 days from the PCN issue date.

Name: _____ Title: _____

Phone: _____ Email: _____

Customer Comment: _____

Customer Signature: _____ Date: _____

Contact Information

If you have any questions regarding this Major PCN, please refer to the contact information listed in Table 3.

Table 3. PCN Contact.

Wolfspeed Contact	Jan Campbell
Wolfspeed Contact E-Mail	Jan.Campbell@wolfspeed.com
Wolfspeed Contact Phone	1.844.200.WOLF
Address	4600 Silicon Drive Durham, NC 27703 U.S.A.

Revision History

Date	Revision	Description
November 9, 2023	0	Initial release