

Wolfspeed® Product/Process Change Notification

PCN Number:	CREE-PCN-1345	PCN Issue Date:	November 1, 2021
PCN Type:	Advance		

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

Wolfspeed is in the process of qualifying its MVF facility for 200-mm SiC wafers. 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 expected SiC power modules affected by this Advance PCN on the date this PCN is issued. The list may be altered due to market dynamics or technological innovations. Updates on Table 1 can be provided by your Wolfspeed contact.

Table 1. Affected Products List.

Part Number	Part Number
CAB006A12GM3	CAS300M12BM2
CAB006M12GM3	CAS300M17BM2
CAB008A12GM3	CAS480M12HM3
CAB008M12GM3	CCB021M12FM3
CAB011M12FM3	CCB032M12FM3
CAB016M12FM3	CCS020M12CM2
CAB400M12XM3	CCS050M12CM2
CAB425M12XM3	EAB450M12XM3
CAB450M12XM3	WAB300M12BM3
CAB530M12BM3	WAB400M12BM3
CAB760M12HM3	WAS110M12BM2
CAS110M12BM2	WAS300M12BM2
CAS120M12BM2	

Qualification Status and Plan

The equipment, processes, and products at the MVF facility are being qualified through Wolfspeed’s standard product introduction process. The customers are urged to provide feedback in writing within 30 days from the PCN issue date. If a customer does not submit written feedback within 30 days, Wolfspeed will consider that its plan is accepted by the customer.

Anticipated Impact

There may be minor changes in fit, form, and/or function due to equipment upgraded for 200-mm wafers. Qualification and characterization activities are being performed to ensure no impact to the products listed in Table 1. The affected part numbers are expected to retain the same datasheets and performance attributes.

Risk Assessment

MVF is being qualified on 200-mm wafers. Engineering team has gone through rigorous R&D efforts to drive the performance matched to Wolfspeed’s existing substrates. Risk is minimized by utilizing the industry standard 200-mm toolsets. Furthermore, the fabrication processes and toolsets have been validated through activities at Wolfspeed’s 200mm pilot line at the State University of New York at Albany (SUNY Albany) to demonstrate matched parametric results in advance of the factory opening.

Sample Status

Customers are encouraged to submit forward-looking sample requirements within 30 days from the Advance PCN issue date. This information will be used for Wolfspeed planning purposes only. Specific sample order delivery dates will be communicated later.

Key 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.

Task	Date*
Qualification Report Approval	Beginning July 2022
First Quantity-Limited Sample Shipment	Beginning July 2022
Volume Production Date	Beginning July 2022

* 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

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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 advance PCN, please refer to the contact information listed in Table 3.

Table 3. PCN Contact.

Wolfspeed Contact:	Customer Service
Wolfspeed Contact E-Mail:	csorderadmin@wolfspeed.com
Address:	5757 Marcy SUNY Parkway Marcy, NY 13403 U.S.A.

Revision History

Date	Revision	Description
November 1, 2021	0	Initial release