

## Wolfspeed® Product/Process Change Notification

PCN Number:	CREE-PCN-1344	PCN Issue Date:	November 23, 2021
PCN Type:	Advance		

### PCN Title

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

### Description of the Change

Wolfspeed’s discrete silicon carbide (SiC) MOSFETs 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.

This is an Advance PCN; final PCNs will be released when data are available, and qualification is complete.

### 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 discrete SiC MOSFETs that will be affected by this Advance PCN. The list may be updated, which can be provided by your Wolfspeed contact.

*Table 1. Preliminary Affected Products List.*

Part Number	Part Number	Part Number	Part Number	Part Number
C2M0025120D	C3M0016120D	C3M0040120K	C3M0075120D-A	C3M0160120D
C2M0040120D	C3M0016120K	C3M0045065D	C3M0075120J	C3M0160120J
C2M0045170D	C3M0021120D	C3M0045065K	C3M0075120K	C3M0280090D
C2M0045170P	C3M0021120K	C3M0060065D	C3M0075120K-A	C3M0280090J
C2M0080120D	C3M0025065D	C3M0060065J	C3M0120065D	C3M0350120D
C2M0160120D	C3M0025065K	C3M0060065K	C3M0120065J	C3M0350120J
C2M0280120D	C3M0030090K	C3M0065090D	C3M0120065K	E3M0075120D
C2M1000170D	C3M0032120D	C3M0065090J	C3M0120090D	E3M0075120K
C2M1000170J	C3M0032120J1	C3M0065100J	C3M0120090J	E3M0120090J
C3M0015065D	C3M0032120K	C3M0065100K	C3M0120100J	
C3M0015065K	C3M0040120D	C3M0075120D	C3M0120100K	

## 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.

## 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. Final PCNs will be released when data are available, and qualification is complete.

*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 Advance 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 Advance 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.**

<b>Wolfsped Contact:</b>	Customer Service
<b>Wolfsped Contact E-Mail:</b>	csorderadmin@wolfsped.com
<b>Address:</b>	5757 Marcy SUNY Parkway Marcy, NY 13403 U.S.A.

## Revision History

Date	Revision	Description
November 23, 2021	0	Initial release