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September 7, 2018

Digi-Key Electronics  
701 Brooks Ave S  
Thief River Falls, MN 56701

Attention: Mason Roberts

This letter is to inform you that a change in lid seal epoxy will be made to the products described herein. This notification is for your information and concurrence.

If you require additional information to qualify this change, please contact Cree within 30 days of receipt of this notification.

If you have any questions concerning this change, please contact:

**Ryan Baker**

Product Marketing Manager | RF Components & RF Foundry Services



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## DESCRIPTION OF DESIGN AND/OR PROCESS CHANGE

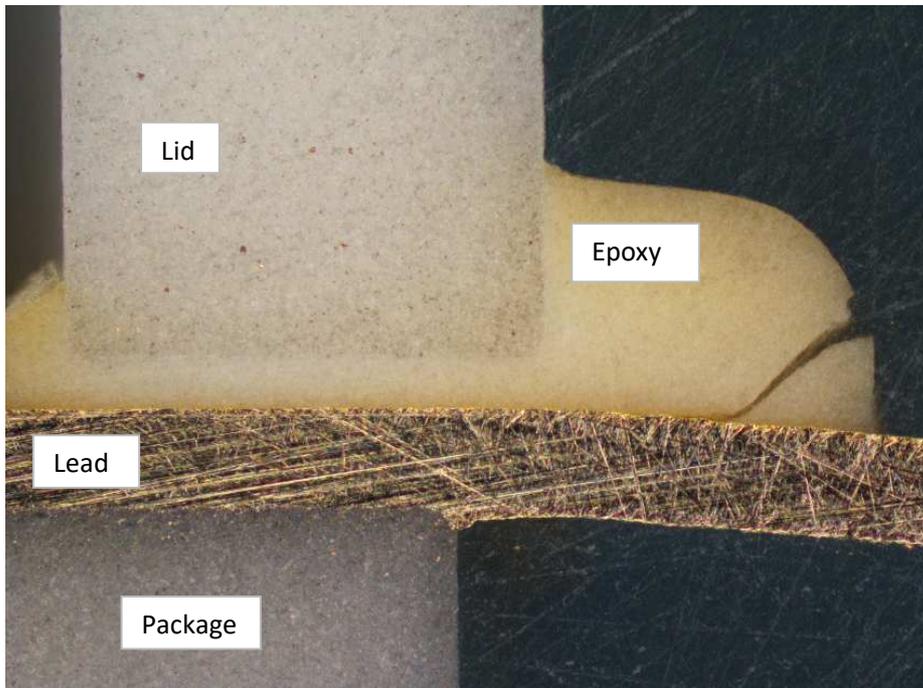
**Implementation Date:** For shipment of products starting after September 28, 2018

### Description of Change:

Manufacturing of the device can result in a small crack in the lid-seal epoxy, but only on the sides with the leads. This crack does not impact the electrical or mechanical performance of the device. The separation occurs further away from the package wall and does not impact the bond line of the seal of the lid to the package. This is a cosmetic issue only.

Engineering developed a solution to this occasional cosmetic cracking, by using a different type of lid-seal epoxy. This new lid-seal epoxy can appear to be light amber in color. The prior epoxy color is off-white.

See cross section. Figure 1.



**Figure 1. Cross section of a GaN HEMT using prior epoxy.**

Except for the above, there is no change in form, fit, function or reliability of the devices.

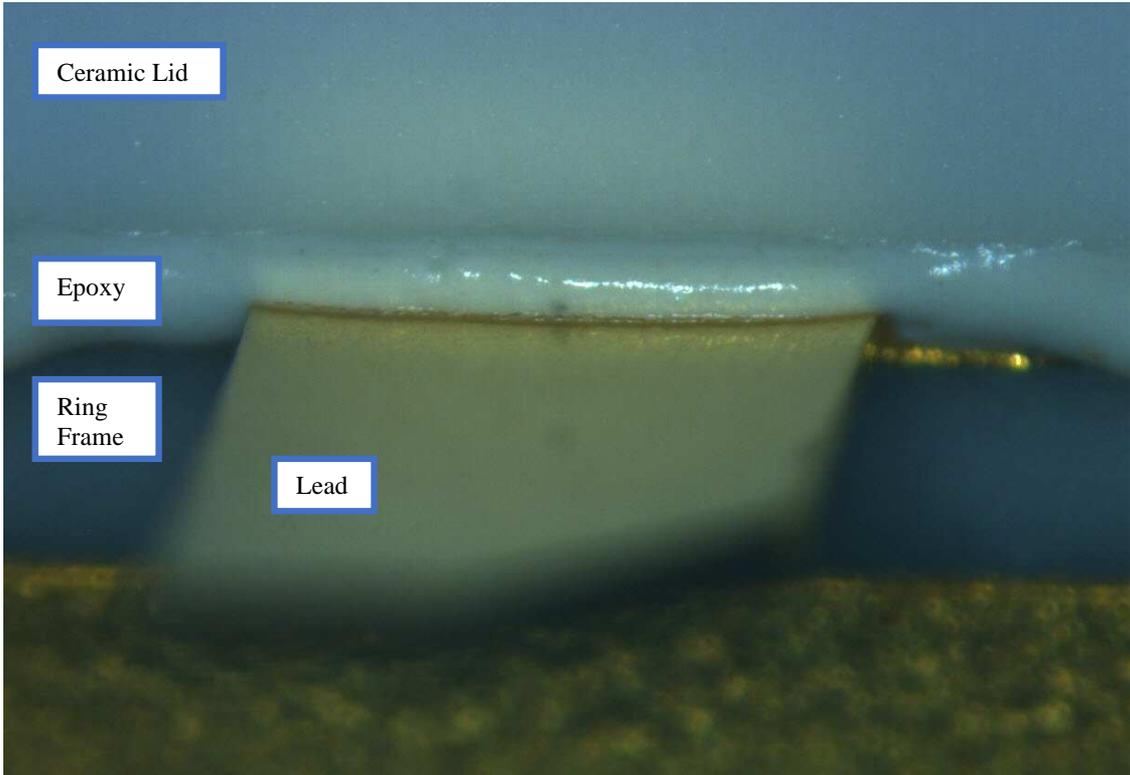


Figure 2. Side view of a GaN HEMT using prior epoxy, showing an off-white colored lid seal epoxy.

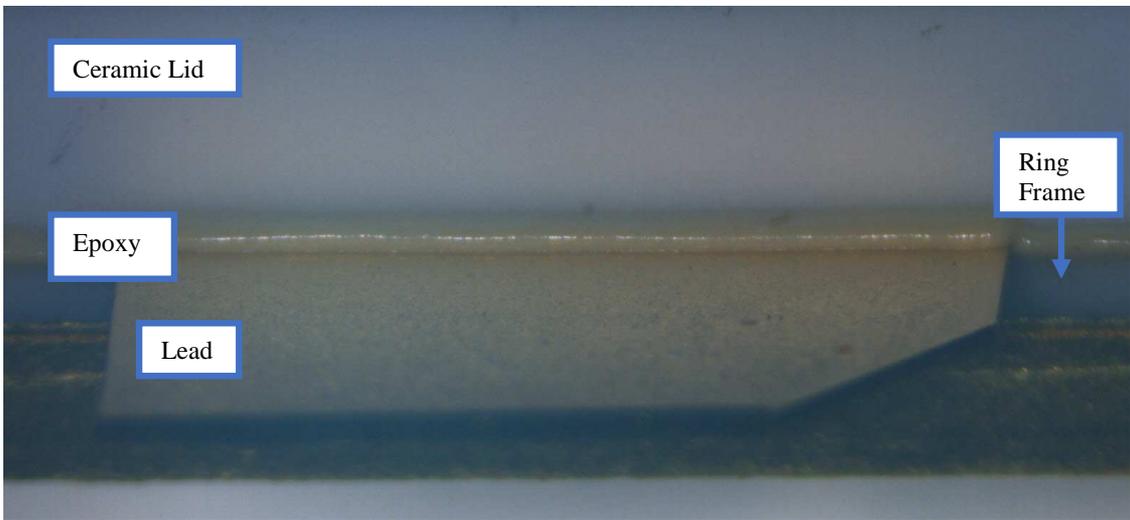


Figure 3. Side view of a GaN HEMT using the new epoxy, showing a tan/butterscotch colored lid seal epoxy.

Affected Flange Part Numbers	Affected Pill Part Numbers
CGH09120F	CGH27060P
CGH27060F	CGH27060P
CG2H30070F	
CGH35060F1	CGH35060P1
CGH35060F2	CGH35060P2
CGH40035F	
CGH40045F	CGH40045P
CG2H40045F	CG2H40045P
CGH40120F	CGH40120P
CGHV35150F	CGHV35150P
CGHV40050F	CGHV40050P
CGHV40100F	CGHV40100P
CGHV40180F	CGHV40180P
CGHV59070F	CGHV59070P