

January 30, 2023

Digi-Key Corporation
701 Brooks Ave South
Thief River Falls, Minnesota 56701

ATTN: Quality/Purchasing Manager

Subject: RF Power Transistor Epitaxial Change – Multiple Products

PCN #: PCN-01607

Dear Valued Customer,

MACOM Technology Solutions has a goal of providing redundant manufacturing capability for increased surge capacity as well as an uninterrupted supply chain. MACOM also periodically reviews its manufacturing supply chain with a goal towards continually improving its cycle time and manufacturability. Towards those ends, we would like to inform you of the following change:

- 1) MACOM has qualified the epitaxial material used to manufacture the products listed below from existing material stock grown at Nitronex LLC to IQE (.please note that Nitronex LLC was purchased by MACOM in 2014). This change was completed to make certain that, as the original epitaxial material depletes, MACOM can continue to provide these products across our customer base; as a result, there is a minor decrease in the nominal gate threshold voltage from an original typical value of ~-1.5V to ~-2.0V. All other RF and DC parameters remain similar and within the datasheet specification.
- 2) The above epitaxial source transition will occur during CY2023. MACOM has completed qualification testing and, other than the minimal voltage change referenced above (still datasheet compliant), electrical performance incorporating these changes, compared to previous material (using Nitronex epitaxial material) is 100% form, fit and function equivalent.
- 3) In order to simplify the tracking of the epitaxial transition, new part numbers (noted below as “Replacement Part Number”) have been created. Please utilize these new part numbers for any new orders effective as soon as possible;
- 4) In the event that a “last time buy” for the existing part numbers is required, MACOM will try to support this as original epitaxial material availability allows. However, please note that MACOM expects (due to Nitronex epi availability) to formally discontinue the existing part numbers listed below during CY2023. Cut off dates for any order inquiries using the existing part numbers is April 28, 2023 or as material availability allows.

Existing Part Number	Replacement Part Number
NPA1006 / NPA1006-TR0500	NPA1006A / NPA1006A-TR0500
NPA1008 / NPA1008-TR0500	NPA1008A / NPA1008A-TR0500
NPTB00004A / NPTB00004A-TR0500	NPTB00004B / NPTB00004B-TR0500
NPTB00025B / NPTB00025AB	NPTB00025C
MAGX-011086 / MAGX-011086-TR0500	MAGX-011086A / MAGX-011086A-TR0500

Thank you in advance for your review of this PCN. If you have questions regarding this subject, please contact me.

Sincerely,

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