PCN # 1778

DATE: May 21, 2018

EXPECTED PCN SHIP DATE: May 21, 2018

**Quality Assurance**
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San Jose, CA 95134

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# ☐ PROCESS CHANGE NOTICE
# ☒ PRODUCT CHANGE NOTICE

**MAXIM INTEGRATED** HEREBY ISSUES NOTIFICATION OF CHANGE THAT MAY AFFECT THE FOLLOWING CATEGORIES:

| | | | | |
|---|---|---|---|---|
| ☒ DESIGN | ☐ WAFER FAB | ☐ ASSEMBLY | ☐ TEST | ☐ ELEC/MECH SPECS |

AFFECTED PRODUCT:

Ordering P/N: (See PN listing XLS in PCN ZIP file)

| CHANGE FROM: - | CHANGE TO: - |
|---|---|
| For Maxim MAX17224/5 nanoPower boost regulators | |
| MAX17224: Device now manufactured with die type CP03A-3B | Device will be manufactured with die type CP03A-3C |
| MAX17225: Device now manufactured with die type CP03A-0C | Device will be manufactured with die type CP03A-0D |

JUSTIFICATION: -

A filter was added to the die design to prevent ringing from affecting the capacitor voltage, while still preserving the soft start output ramp. When the regulator is driven from an input voltage of 3V or higher, and a load resistance of less than 150 Ohms is present, the output can get stuck during start-up and not achieve regulation.

High frequency ringing can interfere with the internal soft start circuitry by discharging the soft start capacitor, CSS, during negative high frequency spikes of >0.7V on VOUT.

Applications are typically not affected if the output load is low during start-up, or if the input and output voltages are under 3V.

TRACEABILITY: Maxim Integrated maintains full traceability by device marking, packaging labels and shipment documents.

Maxim Integrated's Change Notification System is designed to keep our customer base apprised of major product, manufacturing, or facility improvements.

Nasser Ali Chaouche

Nasser AliChaouche / PCN Coordinator

For further information, please contact either of the people listed below.

**Contact your local Maxim Integrated Company Representative** or Nasser AliChaouche, PCN Coordinator
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