

**Product Change Notice**

PCN0809 (v1.0) September 12, 2008

**Overview**

This notice describes the changes to the 32-Lead & 64-Lead Quad Flat Pack (QFP) Package for the ARINC 429, MIL-STD 1553, Discrete to Digital and LCD Display Driver family of devices.

**Description**

Devices currently being assembled in the 32 & 64-Lead Low-Profile Quad Flat Pack (LQFP) Package from CARSEM, Malaysia will be transferred to a 32 & 64-Lead Thin Quad Flat Pack (TQFP) Package assembled at CEI, Thailand. This change affects Fit, Form, and Quality as indicated below:

- Body thickness from 1.4 mm, LQFP to 1.0 mm, TQFP (Fit)
- Mold Compound from Sumitomo EME 7351LS, LQFP to Sumitomo EME G600, TQFP (Form)
- Ink marking to Laser Marking (Form)
- Moisture Sensitivity Level rating from 1 to 3. (Quality)

The TQFP package assembly is fully qualified at the CEI, Thailand location. (See Qualification Data in Table 2) CEI, Thailand has been a qualified supplier of Holt plastic parts for over 10 years and is ISO/ TS 16949 certified.

This package transfer will result in a change to the Moisture Sensitivity Level rating of the products in Table 1. The MSL 3 rating is due to the re-qualification required at the increased Pb+ free temperature reflow requirements of J-STD-020D.01.

There is no change to Function or Reliability of these devices.

**Reason**

The 32 & 64-Lead TQFP at CEI Thailand is being added to ensure guaranteed supply of QFP package configuration device products.

**Products Affected**

Table 1 summarizes the products affected by this PCN. All parts listed are affected by this change.

*Table 1: Products Affected*

8787PQI	8686PQI	8422PQI	1575PQI	8050PQI	8150PQI
8787PQIF	8686PQIF	8422PQIF	1575PQIF	8050PQIF	8150PQIF
8787PQT	8686PQT	8422PQT	1575PQT	8050PQF	8150PQT
8787PQTF	8686PQTF	8422PQTF	1575PQTF	8050PQTF	8150PQTF
8788PQI			1575PQM		
8788PQIF			1575PQMF		
8788PQT					
8788PQTF					

**Traceability**

A Date Code and Country of Origin facilitate package traceability. Parts from Table 1 can be shipped with a Country of Origin of Thailand and a Date Code of 0809 or later, beginning Oct 12, 2008. Product from the CARSEM, Malaysia location will stop shipping upon inventory depletion.

## Qualification Data

Reliability Test	Requirement	Results
		QR-8036 Rev 1.0 64L-TQFP 8050
Device Characterization	Final Test yield analysis	180/0
Precondition (PC)	MSL 3	11/0
PC + HAST	96 hrs	45/0
PC + Autoclave	96 hrs	45/0
PC + Temp Cycle	1000 cycles	45/0
PC + HTS	1000 hrs	45/0

## Response

**Note:** In accordance with JESD46-C, this change is deemed accepted by the customer if no acknowledgement is received within 30 days from this notice.

No response is required. For additional information or questions, please contact:

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## Additional Documentation

Below is a list of documents that are associated with this notice:

- QR-8036 Rev. 1.0 TQFP Package Qualification CEI, Thailand

## Revision History

The following table shows the revision history for this document.

Date	Version	Revision Description
9/12/08	1.0	Initial Release