

## Overview

The purpose of this notification is to announce the addition of Millennium Microtech, Thailand assembly facility for Plastic Leaded Chip Carrier (PLCC) and Small Outline (SOIC) packages for Holt's ARINC 429 and discrete to digital family of devices.

## Description

Added Millennium Microtech's Thailand assembly facility to Holt's qualified supplier list as an approved PLCC and SOIC package subcontract manufacturer to increase manufacturing capacity for products being assembled in these package types. Millennium Microtech's Thailand facility has achieved facility certification to ISO 9001:2008, ISO/TS 16849-2002 and ISO 14001-2004 and is a DSSC certified QML for these package types. More information is available at Millennium Microtech's website: <http://www.m-microtech.com>.

The 16L SOIC-NB & 24L SOIC-WB and the 20L, 28L & 44L PLCC package assemblies are fully qualified at Millennium Microtech (See Qualification Data in Table 2).

This PCN change type is to Form only. There is no change to FIT, Function, Quality or Reliability.

## Reason

Holt Integrated Circuits has been notified that their current assembly supplier CEI has been severely impacted due to flooding in Thailand and will sustain significant delays in returning to full assembly and manufacturing capability.

## Products Affected

All parts listed are affected by this change. This includes devices in both the standard and Pb-free packages and devices in all grades; industrial, extended temperature and extended temperature with burn-in.

**Table 1:**

HI-3182PJx	HI-3282PJx	HI-8020Jx-85	HI-8282APJx-10	HI-8581PJx	HI-8589PJx	HI-3597PSx
HI-3282BPJx	HI-3282PJx-10	HI-8120Jx-85	HI-8282Jx-44	HI-8581PJx-10	HI-8589PJx-10	HI-3597PSx-40
HI-3282BJx-10	HI-6010Jx	HI-8281PJx	HI-8382Jx	HI-8685PJx	HI-8685PJx-10	HI-3599PSx
HI-3183PJx	HI-8010Jx-85	HI-8282APJx	HI-8383Jx	HI-8684PJx-10	HI-8683Jx-10	HI-3599PSx-40
	HI-8110Jx-85		HI-8482Jx	HI-8684PJx	HI-8683PJx	HI-8420PSx

## Traceability

A Date Code facilitates package traceability. Parts from Table 1 can be shipped with a Date Code of 1145 or later, beginning February 1, 2012.

## Qualification Data

**Table 2:**

Reliability Test	Requirement	Results	Results	Results
		QR-1203 Rev 1.0 44L PLCC (MMT)	QR-1204 Rev 1.0 24L SOIC-WB (MMT)	QR-1205 Rev 1.0 16L SOIC-NB (MMT)
Precondition (PC)	MSL 3	11/0	11/0	11/0
PC + HAST	96 hrs	22/0	22/0	22/0
PC + PCT	168 hrs	22/0	22/0	22/0
PC + Temp Cycle	500 cycles	22/0	22/0	22/0
PC + HTS	1000 hrs	22/0	22/0	22/0

## 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:

Scott Paladichuk (spaladichuk@holtic.com)

Holt Integrated Circuits, 23351 Madero, Mission Viejo, CA 92691, Tel: (949) 859-8800, Fax: (949) 859-9643

## Revision History

The following table shows the revision history for this document.

Date	Version	Revision Description
1/20/12	1.0	Initial Release