



PRODUCT CHANGE NOTIFICATION (PCN)

PCN INFORMATION

PCN # 0707 Date: 03/06/08  
Title Qualification of "QFP" Package at CEI, Thailand Assembly Location for HI-8448PQxx-xx Date Effective: 09/01/07  
Contact: Scott Paladichuk Title: Director of Quality  
Phone #: 949-859-8800  
Fax #: 949-859-9643 Attachment: Yes  
E-mail: spaladichuk@holtic.com Samples: Available

MEANS OF DISTINGUISHING CHANGED DEVICES

Product Mark  Back Mark  Date Code  Other

ALL HI-8488PQxx-xx Product Listed with Date Code >= 0727

CHANGE TYPE

Design  Electrical Specification  Mechanical Specification  
 Wafer Fab Site  Wafer Fab Material  Wafer Fab Process  
 Assembly Site  Assembly Material  Assembly Process  
 Test Site  Test Process  Packing/Shipping/Labeling  
 Other: \_\_\_\_\_

DETAILS

DESCRIPTION OF CHANGE:

Initiate the assembly builds of Holt Product HI-8488PQxx-xx at CEI Thailand assembly location. Product planned to be assembled at CEI is the 44 L QFP package configuration.

REASON FOR CHANGE:

To qualify CEI Thailand as sub-contract source for this package type which will enable Holt to maintain the necessary capacity and supply for HI-8488PQxx-xx product.

PRODUCT AFFECTED:

8448PQI Date Code >=0727	8448PQI-10 Date Code >=0727
8448PQT Date Code >=0727	8448PQT-10 Date Code >=0727
8448PQIF Date Code >=0727	8448PQIF-10 Date Code >=0727
8448PQTF Date Code >=0727	8448PQTF-10 Date Code >=0727

RELIABILITY/QUALIFICATION SUMMARY:

There is no negative impact to fit, form, functionality or reliability due this change. No changes to customer assembly processes are needed, provided customers follow Holt recommended soldering processes and comply with the Moisture Sensitivity information indicated on the label.

Tests were conducted on assembled product that is representative of planned Holt product build.

Please see Attachment 1 for Reliability details and qualification plan.

Customer Acknowledgement of Receipt of PCN

Holt records indicate that you require written notification of this change. Please acknowledge below or e-mail to grant approval or request additional information. If Holt does not receive acknowledgement within 30 days of this notice it will be assumed that this change is acceptable.

Holt reserves the right to ship either version manufactured after the process change effective date until the inventory on the prior version has been depleted.

Customer Signature/Date _____	<input type="checkbox"/> Approval for shipments prior to effective date
HOLT ACKNOWLEDGEMENT OF RECEIPT:  RECEIVED BY: _____	   Date

**PRODUCT CHANGE NOTIFICATION (PCN)**

**ATTACHMENT I INFORMATION – PCN 0706**

PCN Type: **Assembly Process**  
 Title: **Qualification of “QFP” Package at CEI, Thailand Assembly Location for HI-8448PQxx-xx**  
 Data Sheet Change: **Yes – Package Dimensions DS8444 Rev. F was released 2/08**  
 Detail of Change: **To qualify CEI Thailand as sub-contract source for this package type which will enable Holt to maintain the necessary capacity and supply for HI-8488PQxx-xx product . Details of package drawing included in DS8444 Rev. F.**

Product Qualification Information

**Table 1**

<b>Package: QFP 10x10 – 44 leads</b>	<b>Mold Compound: EME-6600CGL</b>
<b>Dimension: 10x10x1.4mm</b>	<b>Die Attach: Ablebond 84-1LMISR4</b>
<b>Assembly Site: CEI Thailand</b>	<b>Leadframe: Cu</b>
	<b>Wire: Gold wire, 1.25mil</b>

**See Attachment II**

**Reliability Report HI-8448PQxx-xx  
QR-8009 Rev. 1.0**

Detail of Reliability Qualification Plan

The following indicates the testing completed to cover this assembly change. A detailed list of the qualifications tests performed and the results are supplied in this notice.

This qualification has been specifically developed for the validation of this change. The qualification data validates that the proposed change meets the applicable released technical specifications.

**Qualification Schedule: Start:** August 2007 **End:** January 2008

**Qualification Plan:**  **Test Results:**

**See Attachment II**

**Reliability Report HI-8448PQxx-xx  
QR-8009 Rev. 1.0**