



# PRODUCT/PROCESS CHANGE NOTIFICATION

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PCN MPA-SLI/06/2210  
Notification Date 12/20/2006

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**New location for D2PAK in Wooseok (Aimhigh Global Corp.)**

**SLI - LINEAR & INTERFACE**

**Table 1. Change Identification**

Product Identification (Product Family/Commercial Product)	see attached list
Type of change	Package assembly location change
Reason for change	Service improvements
Description of the change	A new Assembly and Testing location for D2PAK package has been implemented in Subcon Wooseok (Aimhigh Global Corp.) China. For further info, please see attached file.
Product Line(s) and/or Part Number(s)	See attached
Description of the Qualification Plan	See attached
Change Product Identification	'W' as Assy Plant Code in the marking area
Manufacturing Location(s)	

**Table 2. Change Implementation Schedule**


Forecasted implementation date for change	20-Mar-2007
Forecasted availability date of samples for customer	30-Jan-2007
Forecasted date for <b>STMicroelectronics</b> change Qualification Plan results availability	07-Dec-2006
Estimated date of changed product first shipment	20-Mar-2007

**Table 3. Change Responsibility**

	Name	Signature	Date
Division Product Manager	Marco Pesce		Dec.07 ,06
Division Q.A. Manager	Gianluigi Vitali		Dec.07 ,06
Division Marketing Manager	Marcello Sanbiagio		Dec.07 ,06

**Table 4. List of Attachments**

Customer Part numbers list	
Qualification Plan results	

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Customer Acknowledgement of Receipt		PCN MPA-SLI/06/2210	
Please sign and return to STMicroelectronics Sales Office		Notification Date 12/20/2006	
<input type="checkbox"/> Qualification Plan Denied <input type="checkbox"/> Qualification Plan Approved  <input type="checkbox"/> Change Denied <input type="checkbox"/> Change Approved	Name:		
	Title:		
	Company:		
	Date:		
	Signature:		
Remark ..... ..... ..... ..... .....			



**Micro, Power, Analog – MPA Group**  
**STD Linear & Interface Division – Catania**

Change description:

Following Divisional commitments towards a continuous rationalization of production capacity, a new Assembly and Testing location for D2PAK package has been implemented in Subcontractor Wooseok (Aimhigh Global Corp.) – China .

At the beginning only few part numbers will be assembled/tested in the new location: L7805ACD2T-TR, L7905CD2T-TR, LD1117AD2MTR, LD1086D2T18TR, LM317D2T-TR while the remaining part numbers will be transferred according to customers acceptance and Divisional strategy. Moreover the following part-numbers, L7805AC-D2TR, L7905C-D2TR, LD1117A-D2MR, L7805C-D2TR (already produced in Wooseok) will be closed and replaced with L7805ACD2T-TR, L7905CD2T-TR, LD1117AD2MTR, L7805CD2T-TR.

As additional information, we guarantee the full compatibility of Wooseok D2PAK package with the ST D2PAK internal assembly line if the Footprint area is in line with that one indicated in the datasheets.

**MPA (Micro, Power, Analog) Group**  
**Voltage Regulator, Interface, Advanced logic & Power RF Quality**  
**Assurance & Reliability**

**Reliability Evaluation Plan and final results**  
**on L7805 (Wooseok Wheihai)**

**REL-6337-266.06W**

**Line.. LX05**  
**Package. D2PAK**

Test	Conditions	S.S.	Requirement	Results
PRECONDITIONING OF SMD DEVICES BEFORE TC/THB/ENV. SEQ.	DRYNG 1H @ 125°C STORE 168H @ TA=85°C RH=85% REFLOW 3 CYCLES @ 245°C+0 -0 °C	204	Parameter within spec. limits at end of preconditionings after go no go test.	No parameter deviation at end of preconditionings.
H.T.S.	TA=150 °C	77 x 1 Lot	Parameter deviation within spec. limits	No parameter deviation at 1000 hours.
T.H.B.	<i>D.U.T. SMD PRECONDITIONED LEVEL 1 JEDEC</i> TA=85°C - RH=85% Vbias= 24V	77 x 1 Lot	Parameter deviation within spec. limits	No parameter deviation at 1000 hours.
H.T.B.	TA=125°C Vbias= 35V	77 x 1 Lot	Parameter deviation within spec. limits	No parameter deviation at 1000 hours.
PRESSURE POT	TA=121°C - PA=2Atm	77 x 1 Lot	Parameter deviation within spec. limits	No parameter deviation at 240 hours.
THERMAL CYCLES AIR TO AIR	<i>D.U.T. SMD PRECONDITIONED LEVEL 1 JEDEC</i> TA=-65°C TO 150°C 1 HOUR / CYCLE	77 x 1 Lot	Parameter deviation within spec. limits	No parameter deviation at 1000 cy
THERMAL SHOCKS LIQUID TO LIQUID	TA=-65°C TO 150°C 10 MIN / SHOCK	77 x 1 Lot	Parameter deviation within spec. limits	No parameter deviation at 500 sh.
SMD MOISTURE INDUCED STRESS	DRYNG 1H @ 125°C STORE 168H @ TA=85°C RH=85% REFLOW 3 CYCLES @ 245°C+0°C -0°C	25 x 1 Lot	Parameter deviation within spec. limits at end of test.	No parameter deviation at end of test.

**Comments:** The reliability tests results are aligned to our STD production ☐

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