



# PRODUCT/PROCESS CHANGE NOTIFICATION

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PCN APG-CRM/08/3717  
Notification Date 06/04/2008

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**ACTIVATION OF ST SHENZHEN AS ADDITIONAL ASSY & TESTING  
LOCATION FOR FLEXIWATT 25/27  
CRM - CAR RADIO & MULTIMEDIA DIV**

**Table 1. Change Implementation Schedule**

Forecasted implementation date for change	01-Sep-2008
Forecasted availability date of samples for customer	15-Jul-2008
Forecasted date for <b>STMicroelectronics</b> change Qualification Plan results availability	15-Jul-2008
Estimated date of changed product first shipment	15-Sep-2008

**Table 2. Change Identification**

Product Identification (Product Family/Commercial Product)	PRODUCTS IN PACKAGE FLEXIWATT 25/27
Type of change	Package assembly location change
Reason for change	CAPACITY INCREASE AND COMPANY ROADMAP
Description of the change	Activation of Shenzhen plant as additional assy & testing location for products in package Flexiwatt 25 & 27.
Product Line(s) and/or Part Number(s)	See attached
Description of the Qualification Plan	See attached
Change Product Identification	"GK" AS IDENTIFICATION PLANT FOR SHENZHEN
Manufacturing Location(s)	



## DOCUMENT APPROVAL

Name	Function
Pengo, Tullio	Division Marketing Manager
Cassani, Fabrizio	Division Product Manager
Mercandelli, Laura	Division Q.A. Manager



# ACTIVATION OF ST SHENZHEN AS ADDITIONAL ASSY & TESTING LOCATION FOR FLEXIWATT 25/27

## WHAT:

Due to demand increase for Flexiwatt 25/27 leads products, we are going to activate Shenzhen plant as additional assy & testing location for this package beside the main location of Malta.

The extra demand for the Flexiwatt package will be provided from Shenzhen. All the production will be as leadfree, Rohs compliancy: pure tin lead plating, "e3" marking on the part, and copper wires

## WHY:

Capacity increase and Company roadmap.

## HOW:

Qualification is on going as per attached plan.

Test vehicle 1: TDA7850 (UN01) FLEXIWATT 25 (die size 5280 x 5430)

Test vehicle 2: E-TDA7386 (L390): FLEXIWATT 25 (die size 7300 x 5140 um)

Assy materials:

Molding compound KYOCERA KE-G280T

WIRE Cu D2

PREFORM Pb/Ag/Sn 97.5/1.5/1



TEST NAME	CONDITIONS [SPEC]	TV1: UN01 (BCD5S) S.S. x lots	TV2: L390 (BI20HS) S.S. x lots
TCT	Ta=-50/+150°C, 1000 cycles	77x2	77x2
AC	2atm, 121°C, 96h	77x2	77x2
HTSL	Ta=150°C, 1000h	45x2	45x2
THB	P <sub>D</sub> negligible, V <sub>S</sub> according to prod. spec RH=85%, Ta=85°C, 1000h	45x2	-

**WHEN:**

End of the qualification is forecasted for July 08 for start in production from September 08 onward following below plan by package splitting option:

- Flexiwatt 25 Lead vertical splitting – September 08
- Flexiwatt 27 leads vertical splitting – Q4/08
- Flexiwatt 25/27 horizontal splitting - Q1/09

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