

PRODUCT/PROCESS CHANGE INFORMATION

SUBJECT M55 MICROCONTROLLERS: 2D MARKING INTRODUCTION ON QFP 10X10 PACKAGES (ST MALTA)

IMPACTED
PRODUCTS

ST M55 Technology Microcontrollers assembled in the following packages:

PACKAGE DESCRIPTION	PRODUCT
TQFP 64 10x10x1.0 1.0 ExPad Down	SPC570S40E1CEFAR
	SPC570S40E1CEFAY
	SPC570S40E1CEFBR
	SPC570S40E1CEFBY
	SPC570S50E1CE1AR
	SPC570S50E1CEFAR
	SPC570S50E1CEFAY
	SPC570S50E1DEFAR
	SPC570S50E1DEFAY
TQFP-EP 80L 10X10X1.0 EXPADDOWN	SPC572L64F2BC6AR
	SPC572L64F2BC6AY

MANUFACTURING STEP

Assembly

INVOLVED PLANT

ST Malta Plant

CHANGE REASON

Quality improvement, by introducing additional traceability information at marking level. Extended traceability will allow better backward analyses and more detailed feedbacks on process performance.



CHANGE DESCRIPTION

Additional 2D marking on component (further to the standard one), allowing progressive enhancement of product traceability (diffusion lot, wafer number, dice coordinates, etc.). Given the package dimension, current standard marking (contents unchanged) has been reallocated to provide additional room for the 2D mark. An example is shown below:

Current Marking



New 2D Marking



TRACEABILITY

Date Code and direct product marking.

VALIDATION

Change concerns product appearance only, with no impact on form, fit and function. No changes in process and / or equipment are required.

CURRENT PRODUCTS

New 2D marking will be progressively implemented on all concerned products and will definitively replace the current one.

REPORTS

Not applicable.

IMPLEMENTATION

Three months from this change information.