

**Qualification Description:**

The information contained herein represents proof of Reliability and Performance of the Package Series listed below in accordance with the Qualification Plan and test methods referenced in Section 7.0, after exposure to a variety of environments and mechanical events that occur during installation and operational lifetime of the product. Upon conclusion of the testing the product continued to operate within specification limits, demonstrating its capability of reliable operation throughout its lifetime.

The purpose of this report is to present Qualification Test results of the referenced Package Series. The Pericom product data presented in this report qualifies the products manufactured in this package configuration, using the same bill of materials and assembled by the identified subcontractor location. The report describes the qualification test program, procedures utilized, criteria enforced (at the time of product validation), and specific result data obtained during the testing of three lots of semiconductors. The three lots consist of an equal number of units from different date codes, from the same production line and SubContractor to ensure manufacturing repeatability.

**Lot Background Information:**

Qual Part Number:	PI7C8150BMAE
Supplier (Code):	GTK (G)
Pkg Type - Code:	FQFP - MA208(Cu)
Outline Drawing:	PD2012
By Extension Pkg:	MA128 FG64 FD100 FC64 FB48 FB32

Qual Test Date:	Aug-2011 updated Sep-2011
Die Attach Material:	1076DJ-G (cond)
Wire Size & Material:	0.8mil PdCu
Mold Compound:	G600F
Leadframe Material:	C7025
Lead Finish:	Matte Sn

**Pericom's Qualification Test Results:**

Stress Test	Test Procedure	Test Conditions	Duration	# of Lots	Samples per Lot	Results Pass/Fail
Preconditioning	JESD22-A113	MSL1	NA	3	154	154 / 0
CSAM	J-STD-020	No delamination of Die Top, Wire bond, Down bond areas	NA	3	22	22 / 0
PreCon UHAST	JESD22-A118	130°C, RH 85%, 33.3 psia, 0V	96 hrs	3	77	77 / 0
PreCon Temp Cycle	JESD22-A104	-65°C to +150°C 500 Cycles	100 cycles	3	77	77 / 0
↓	↓	↓	500 cycles	3	77	77 / 0
HTSL (no PreCon)	JESD22-A103	1000hrs, 0V, 150°C	500 hrs	3	77	77 / 0
↓	↓	↓	1000 hrs	3	77	77 / 0
Wire Strength, IMG		After 1000 hours HTSL	NA	3	2	2 / 0
Splash, Cratering		After Wire bonding	NA	3	3	3 / 0
Physical Dimension	JESD22-B100	NA	NA	3	5	5 / 0
External Visual Insp	JESD22-B101	NA	NA	3	5	5 / 0
Solderability	J-STD-020	Pb-Free Solder Dip 245°C	NA	3	3	3 / 0

**Qualification by Extension Information:**

Where a product of interest is not sampled during this period, it is valid to use the reliability data of the particular process technology or package type family to which the part belongs. All parts within the same family are designed to the same rules, and manufacturing is controlled by SPC. Within a product family, a device can only be fabricated on one process technology/ option, and only assembled on one package type process. Refer to Appendix A for a list of devices qualified by extension.

If there are any questions about this qualification, please contact Quality Support at:

[customerquestion@pericom.com](mailto:customerquestion@pericom.com)

Date: Aug-2011 updated Sep-2011  
 PKG Type & Code: FQFP - MA208(Cu)  
 Assembler-Code: GTK (G)  
 Qual Device: PI7C8150BMAE

**By extension: Pericom active devices using the Fab/Process at the time of the Qualification:**

PI6C487016FBE				
PI6C487016FBEX				
PI7C8140AMAE				
PI7C8150AMAE				
PI7C8150AMAE-33				
PI7C8150BMAE				
PI7C8150BMAIE				
PI90SD1636CFCE				
PI90SD1636CFCEX				
PI90SD1636DFCE				
PI90SD1636DFCEX				

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