

Package Qualification Report

Reliability By Design

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 Vehicle:	PI3HDMI341ARTFFE
Supplier (Code):	GTK (G)
Pkg Type - Code:	LQFP-80 (FF80)
Outline Drawing:	PD-2064
By Extension Pkg:	FC64 FG64

Qual Test Date:	Aug-2008 update Jan-2009
Die Attach Material:	Ablebond 8352L
Wire Size & Material:	1.0 mil Gold
Mold Compound:	EME G600F
Leadframe Material:	C7025 Copper
Lead Finish:	100% 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	MSL3	NA	3	90	270 / 0
CSAM	J-STD-020	No delamination of Die Top, Wire bond, Down bond areas	NA	3	5	15 / 0
PreCon UHAST	JESD22-A118	130°C, RH 85%, 33.3 psia, 0V	96 hrs	3	30	90 / 0
PreCon Temp Cycle	JESD22-A104	-65°C to +150°C 500 Cycles	100 cycles	3	60	180 / 0
		-65°C to +150°C 500 Cycles	500 cycles	3	60	180 / 0
Physical Dimension	JESD22-B100	Per Datasheeet	NA	3	5	15 / 0
External Visual Insp	JESD22-B101	NA	NA	3	5	15 / 0
Terminal Strength	JESD22-B105	90° Bends, 2 bend min.	NA	3	5	15 / 0
Solderability	J-STD-020 JESD22-B102	Pb-Free Solder Dip 245°C	NA	3	5	15 / 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.

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

customerquestion@pericom.com



Date:	Aug-2008 update Jan-2009
PKG Type & Code:	LQFP-80 (FF80)
Assembler-Code:	GTK (G)
Qual Vehicle:	PI3HDMI341ARTFFE

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

PI3HDMI301FFE		
PI3HDMI301FFEX		
PI3HDMI341ARCFFE		
PI3HDMI341ARCFFEX		
PI3HDMI341ARFFE		
PI3HDMI341ARFFEX		
PI3HDMI341ART-BFFE		
PI3HDMI341ART-BFFEX		
PI3HDMI341ARTFFE		
PI3HDMI341ARTFFEX		
PI90SD1636CFCE		
PI90SD1636CFCEX		
PI90SD1636CFGE		
PI90SD1636CFGEX		
1 1000D 1000CFGEA		

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Lot Background Information:

Qual Vehicle:	PI3HDMI341ARTFFE	Qual Test Date:	Jun-2009
Supplier (Code):	ASE-M (B)	Die Attach Material:	CRM 1076DS
Pkg Type - Code:	LQFP-80 (FF80)	Wire Size & Material:	0.8 mil Gold
Outline Drawing:	PD-2064	Mold Compound:	CEL 9220HFA
By Extension Pkg:	FG64	Leadframe Material:	Copper
		Lead Finish:	100% 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	MSL3	NA	3	150	450 / 0
CSAM	J-STD-020	No delamination of Die Top, Wire bond, Down bond areas	NA	3	5	15 / 0
PreCon UHAST	JESD22-A118	130°C, RH 85%, 33.3 psia, 0V	96 hrs	3	75	225 / 0
PreCon Temp Cycle	JESD22-A104	-65°C to +150°C 500 Cycles	100 cycles	3	75	225 / 0
		-65°C to +150°C 500 Cycles	500 cycles	3	75	225 / 0
Physical Dimension	JESD22-B100	Per Datasheeet	NA	3	5	15 / 0
External Visual Insp	JESD22-B101	NA	NA	3	5	15 / 0
Terminal Strength	JESD22-B105	90° Bends, 2 bend min.	NA	3	5	15 / 0
Solderability	J-STD-020 JESD22-B102	Pb-Free Solder Dip 245°C	NA	3	5	15 / 0

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PI3HDMI341ARTFFEX			
PI90SD1636CFGE			
PI90SD1636CFGEX			
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