

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:

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Qual Part Number:	PI2PCIE2412ZHE
Supplier (Code):	GTK (G)
Pkg Type - Code:	TQFN-42 (ZH42)
Outline Drawing:	PD-2035
By Extension Pkg:	ZH32

Qual Test Date:	Nov-2010
Die Attach Material:	CRM 1076DJ-G
Wire Size & Material:	0.8 mil Gold
Mold Compound:	Sumitomo G770HJ
Leadframe Material:	Copper (A194)
Lead Finish:	PPF (NiPdAu)

Date Codes: 1034GG

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
		-65°C to +150°C 500 Cycles	500 cycles	3	77	77 / 0
Physical Dimension	JESD22-B100	Per Datasheeet	NA	3	5	5/0
External Visual Insp	JESD22-B101	NA	NA	3	5	5/0
Solderability	J-STD-020 JESD22-B102	Pb-Free Solder Dip 245°C	NA	3	5	5/0

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:	Nov-2010	
PKG Type & Code:	TQFN-42 (ZH42)	
Assembler-Code:	GTK (G)	
Qual Device:	PI2PCIE2412ZHE	

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

PI2DBS412ZHEX		
PI2EQX5801CZHEX		
PI2LVD412ZHEX		
PI2PCIE2214ZHEX		
PI2PCIE2412ZHEX		
PI2PCIE2422ZHEX		
PI2PCIE2442ZHEX		
PI2PCIE2452ZHEX		
PI2PCIE412-CZHEX		
PI2PCIE412-DZHEX		
PI2PCIE412ZHEX		
PI2VDP412ZHEX		
PI3EQX7702ZHEX		
PI3HDMI101-AZHEX		
PI3HDMI101-BZHEX		
PI3HDMI101SZHEX		
PI3HDMI101ZHEX		
PI3HDMI213-AZHEX		
PI3HDMI214-AZHEX		
PI3HDMI412-AZHEX		
PI3HDMI412FT-AZHEX		
PI3HDMI412FT-BZHEX		
PI3HDMI412FT-CZHEX		
PI3HDMI412FTZHEX		
PI3HDMI412ZHEX		
PI3L720ZHEX		
PI3LVD412ZHEX		
PI3LVD4889ZHEX		
PI3PCIE2415-AZHEX		
PI3PCIE2415ZHEX		
PI3PCIE3412ZHEX		
PI3PCIE3415ZHEX		
PI3PCIE3442ZHEX		
PI3PCIE3462ZHEX		
PI3VDP101LSZHEX		
PI3VDP411LSTZHEX		
PI3VDP411LSZHEX		
PI3VDP412ZHEX		
PI3VDP611LSZHEX		
PI3VDP612-AZHEX		
PI3VDP612ZHEX		



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Lot Background Information:

Qual Part Number:	PI3PCIE2612-AZFE
Supplier (Code):	SPEL (X)
Pkg Type - Code:	TQFN-56 (ZF56)
Outline Drawing:	PD-2024
By Extension Pkg:	ZF36, ZH42, ZH32

Qual Test Date:	Dec-2008 update Apr-2011
Die Attach Material:	AbleBond 8006NS
Wire Size & Material:	1.0 mil Gold
Mold Compound:	CEL9220ZHF10L
Leadframe Material:	Copper
Lead Finish:	PPF
	<u> </u>

Date Codes: 0811XG, 0818XG, 0819XG

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	180	180 / 0
CSAM	J-STD-020	No delamination of Die Top, Wire bond, Down bond areas	NA	3	5	5/0
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
		-65°C to +150°C 500 Cycles	500 cycles	3	77	77 / 0
Physical Dimension	JESD22-B100	Per Datasheeet	NA	3	5	5/0
External Visual Insp	JESD22-B101	NA	NA	3	5	5/0
Solderability	J-STD-020 JESD22-B102	Pb-Free Solder Dip 245°C	NA	3	5	5/0

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.

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Lot Background Information:

Qual Part Number:	PI3HDMI412ZHE PI3HDMI412-AZHE	Qual Test Date:	Jul-2007 updated Aug-2011
Supplier (Code):	UTL (Z)	Die Attach Material:	8200T
Pkg Type - Code:	TQFN-42 (ZH42)	Wire Size & Material:	1.0 mil Gold
Outline Drawing:	PD-2035	Mold Compound:	EME G770HCD
By Extension Pkg:	ZH32	Leadframe Material:	Copper
		Lead Finish:	PPF

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	2	154	154 / 0
CSAM	J-STD-020	No delamination of Die Top, Wire bond, Down bond areas	NA	2	22	22 / 0
Autoclave	JESD22-A1	121°C, RH 100%, 29.7psig, 0V	168 hrs	1	76	76 / 0
PreCon Temp Cycle	JESD22-A104	-65°C to +150°C 500 Cycles	100 cycles	2	76	76 / 0
		-65°C to +150°C 500 Cycles	500 cycles	2	76	76 / 0
HTSL (no PreCon)	JESD22-A103	1000hrs, 0V, 150°C	500 hrs	1	76	76 / 0
		1000hrs, 0V, 150°C	1000 hrs	1	76	76 / 0
Physical Dimension	JESD22-B100	Per Datasheeet	NA	2	5	5/0
External Visual Insp	JESD22-B101	NA	NA	2	5	5/0

Qualification by Extension Information:

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Date:	Jul-2007 updated Aug-2011		
PKG Type & Code:	TQFN-42 (ZH42)		
Assembler-Code:	UTL (Z)		
Qual Device:	PI3HDMI412ZHE PI3HDMI412-AZHE		

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

PI2DBS412ZHE PI3LVD)512ZHE		
PI2DBS412ZHEX PI3LVD	0512ZHEX		
PI2EQX3431ZHE PI3PCI	E2415-AZHE		
PI2EQX3431ZHEX PI3PCI	E2415-AZHEX		
PI2LVD412ZHE PI3PCI	E2415ZHE		
PI2LVD412ZHEX PI3PCI	E2415ZHEX		
PI2PCIE2214ZHE PI3PCI	E3412ZHE		
PI2PCIE2214ZHEX PI3PCI	E3412ZHEX		
PI2PCIE2412ZHE PI3PCI	E3415ZHE		
PI2PCIE2412ZHEX PI3PCI	E3415ZHEX		
PI2PCIE2422ZHE PI3USE	B14-AZHE		
PI2PCIE2422ZHEX PI3USE	B14-AZHEX		
PI2PCIE2442ZHE PI3VDF	P101LSZHE		
PI2PCIE2442ZHEX PI3VDF	P101LSZHEX		
PI2PCIE2452ZHE PI3VDF	P612-AZHE		
PI2PCIE2452ZHEX PI3VDF	P612-AZHEX		
PI2PCIE412-CZHE PI3VDF	P612ZHE		
PI2PCIE412-CZHEX PI3VDF	P612ZHEX		
PI2PCIE412-DZHE PI5USE	32058ZHE		
PI2PCIE412-DZHEX PI5USE	32058ZHEX		
PI3CH401ZHE PI6LC4	830ZHE		
PI3CH401ZHEX PI6LC4	830ZHEX		
PI3EQX7702ZHE PI6LC4	840ZHE		
PI3EQX7702ZHEX PI6LC4	840ZHEX		
PI3HDMI101-BZHE			
PI3HDMI101-BZHEX			
PI3HDMI101ZHE			
PI3HDMI101ZHEX			
PI3HDMI412FT-AZHE			
PI3HDMI412FT-AZHEX			
PI3HDMI412FT-BZHE			
PI3HDMI412FT-BZHEX			
PI3HDMI412FTZHE			
PI3HDMI412FTZHEX			
PI3HDMI412ZHE			
PI3HDMI412ZHEX			
PI3L720ZHE			
PI3L720ZHEX			
PI3LVD412ZHE			
PI3LVD412ZHEX			