

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:	UTL PN - FD0095
Supplier (Code):	UTL (Z)
Pkg Type - Code:	SC70 (C06)
Outline Drawing:	PD1902
By Ext. Pkg Code:	C05

Qual Test Date:	Feb-2009
Die Attach Material:	8006NS
Wire Size & Material:	0.8mil Au
Mold Compound:	G600
Leadframe Material:	C194 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	MSL1	NA	3	231	231 / 0
CSAM	J-STD-020	No delamination of Die Top, Wire bond, Down bond areas	NA	3	20	20 / 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
Physical Dimension	JESD22-B100	NA	NA	1	30	30 / 0
External Visual Insp	JESD22-B101	NA	NA	3	5	5 / 0
Solderability	J-STD-020	Pb-Free Solder Dip 245°C	NA	1	22	22 / 0

Qualificaton 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: Feb-2009
 PKG Type & Code: SC70 (C06)
 Assembler-Code: UTL (Z)
 Qual Device: UTL PN - FD0095

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

PI3A125CEX	PI2RFS112CE			
PI3A125CX	PI2RFS112CEX			
PI5A121BCEX	PI5A3157BC6EX			
PI5A121C	PI5A3157C			
PI5A121CEX	PI5A3157CEX			
PI5A121CX	PI5A3157CX			
PI5A122CEX	PI5A4157CEX			
PI5A4594AC	PI5A4599AC			
PI5A4594ACEX	PI5A4599ACEX			
PI5A4594ACX	PI5A4599ACX			
PI5A4595AC	PI5A4599BCEX			
PI5A4595ACEX	PI7AT04C			
PI5A4595ACX	PI7AT04CEX			
PI5A4596AC	PI7AT04CX			
PI5A4596ACEX				
PI5A4596ACX				
PI5C3301C				
PI5C3301CEX				
PI5C3301CX				
PI5C3302CX				
PI74ST1G02CX				
PI74ST1G08CEX				
PI74ST1G08CX				
PI74ST1G125CEX				
PI74ST1G125CX				
PI74ST1G126CE				
PI74ST1G126CEX				
PI74ST1G126CX				
PI74ST1G32CEX				
PI74ST1G32CX				
PI74ST1G86CE				
PI74ST1G86CX				
PI74STX1G02CEX				
PI74STX1G02CX				
PI74STX1G08C				
PI74STX1G08CEX				
PI74STX1G08CX				
PI74STX1G125CX				
PI74STX1G126CEX				
PI74STX1G126CX				
PI74STX1G14CX				
PI74STX1G79CX				
PI74STX1GU04C				
PI74STX1GU04CEX				
PI74STX1GU04CX				

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Lot Background Information:

Qual Part Number:	PT7M6427NLC4E
Supplier (Code):	CJE (J)
Pkg Type - Code:	SC70-04 (C4)
Outline Drawing:	SC70-4
By Extension Pkg:	C5 C6 C3

Qual Test Date:	Mar-2010 updated: Jan-2015
Die Attach Material:	ABLESTICK 84-3J
Wire Size & Material:	1.0 mil Gold
Mold Compound:	KL7000HA
Leadframe Material:	A42 Copper
Lead Finish:	100% Matte Sn
Date Codes:	bWKL

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	160	160 / 0
Precon - PI5A3157BC6E	JESD22-A113	MSL1	NA	1	77	77 / 0
CSAM	J-STD-020	No delamination of Die Top, Wire bond, Down bond areas	NA	3	5	15 / 0
PreCon PCT	JESD22-A118	130°C, RH 85%, 33.3 psia, 0V	96 hrs	3	77	231 / 0
PreCon PCT - PI5A3157BC6E	JESD22-A118	130°C, RH 85%, 33.3 psia, 0V	96 hrs	1	77	77 / 0
PreCon BHAST - PI5A3157BC6E	JESD22-A110	130°C, RH 85%, 33.3 psia, 5.5V	168 hrs	3	77	231 / 0
PreCon Temp Cycle	JESD22-A104	-65°C to +150°C 500 Cycles	100 cycles	3	77	231 / 0
		-65°C to +150°C 500 Cycles	500 cycles	3	77	231 / 0
PreCon Temp Cycle	JESD22-A104	-65°C to +150°C 500 Cycles	100 cycles	1	77	77 / 0
- PI5A3157BC6E		-65°C to +150°C 500 Cycles	500 cycles	1	77	77 / 0
HTSL (no PreCon)	JESD22-A103	1000hrs, 0V, 150°C	500 hrs	3	77	231 / 0
		1000hrs, 0V, 150°C	1000 hrs	3	77	231 / 0
HTSL (no PreCon)	JESD22-A103	1000hrs, 0V, 150°C	500 hrs	1	77	77 / 0
- PI5A3157BC6E		1000hrs, 0V, 150°C	1000 hrs	1	77	77 / 0
Physical Dimension	JESD22-B100	Per Datasheet	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

Qualificaton by Extension Information:

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customerquestion@pericom.com

Date: **Mar-2010 updated: Jan-2015**
 PKG Type & Code: **SC70-04 (C4)** QBE: C5, C6, C03
 Assembler-Code: **CJE (J)**
 Qual Device: **PT7M6427NLC4E**

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

C3	C4	C5	C6	
PT7M6129NLEEC3EX	PT7M6101CHC4EX	PI3A125BCEX	PI5A3157BC6E+DMX	
PT7M6142NLEEC3E+DMX	PT7M6101CLC4EX	PI5A121BCE+DMX	PI5A3157BC6EX	
PT7M6142NLEEC3EX	PT7M6123NLC4EX	PI5A121BCEX	PI5A3157CE+DGX	
PT7M6144NLC3EX	PT7M6125NLC4EX	PI5A121BCE	PI5A3157CE+DMX	
PT7M6429NLC3EX	PT7M6126CLC4EX	PI5A121CCEX	PI5A3157CEX	
PT7M6430NLC3EX	PT7M6127NLC4EX	PI5A3166CE+DMX	PI5A4157CE+DMX	
PT7M6832VD3C3EX	PT7M6129CLC4EX	PI5A3166CEX	PI5A4157CEX	
PT7M6834WD1C3EX	PT7M6129NLC4EX	PI5A3167CCE+DMX	PI5A4599BCE+DMX	
	PT7M6130CLC4EX	PI5A3167CCEX	PI5A4599BCEX	
	PT7M6130NLC4EX	PI5A3167CE+DMX		
	PT7M6131NLC4EX	PI5A3167CEX		
	PT7M6132NLC4EX	PT7M8218B09CEX		
	PT7M6135NLC4EX	PT7M8218B10CEX		
	PT7M6139NLC4EX	PT7M8218B11CEX		
	PT7M6140NLC4EX	PT7M8218B12CEX		
	PT7M6143NLC4EX	PT7M8218B18CEX		
	PT7M6144NLEEC3EX	PT7M8218B20CEX		
	PT7M6149NLC4EX	PT7M8218B25CEX		
	PT7M6426CLC4EX	PT7M8218B28CEX		
	PT7M6426NLLC4EX	PT7M8218B30CEX		
	PT7M6427NLLC4EX	PT7M8218B33CEX		
	PT7M6428NLLC4EX			
	PT7M6429NLLC4EX			
	PT7M6430NLLC4EX			
	PT7M6431NLLC4EX			
	PT7M6432NLLC4EX			
	PT7M6433NLLC4EX			