

# **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:	PI2EQX3201BZFE
Supplier (Code):	GTK (G)
Pkg Type - Code:	TQFN-36 (ZF36)
Outline Drawing:	PD-223
By Extension Pkg:	ZD20

Qual Test Date:	May-2009 update Jan-2012
Die Attach Material:	Ablebond 8200T
Wire Size & Material:	1.0 mil Gold
Mold Compound:	EME G700HA
Leadframe Material:	Copper
Lead Finish:	PPF
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Date Codes: X0913GU X0914GU X0915GU

#### 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	100	100 / 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	50	50 / 0
PreCon Temp Cycle	JESD22-A104	-65°C to +150°C 500 Cycles	100 cycles	3	50	50 / 0
		-65°C to +150°C 500 Cycles	500 cycles	3	50	50 / 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:	May-2009 update Jan-2012
PKG Type & Code:	TQFN-36 (ZF36)
Assembler-Code:	GTK (G)
Qual Device:	PI2EQX3201BZFE

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

PIZECX3201BLZFE   PISECX8801ZDE			_	 
PIZEQX201BZFE	PI2EQX3201BLZFE	PI3EQX6801ZDE		
PIZEQX3201BZFEX	PI2EQX3201BLZFEX	PI3EQX6801ZDEX		
PIZEQX4401DZFE	PI2EQX3201BZFE	PI3EQX6852BZDE		
PIZEQX4401DZFEX	PI2EQX3201BZFEX	PI3EQX6852BZDEX		
PIZEQX4401ZFE	PI2EQX4401DZFE	PI3EQX7701ZDE		
PIZEQX44012FEX         PI3EQX7711ZDEX           PI2EQX4951SLAZDE         PI3EQX7741ZDE           PIZEQX4951SLZDE         PI3EQX7741ZDEX           PIZEQX4951SLZDE         PI3EQX7741STZDE           PIZEQX4951SLZDE         PI3EQX7741STZDEX           PIZEQX6741SLZDEX         PI3EQX7741STZDEX           PIZEQX6741SLZDEX         PI4ULS3V08ZFEX           PIZEQX6811ZDE         PI6PCIESE4ZDEX           PIZEQX0811ZDE         PI6PCIESE4ZDEX           PIZEQXDP101-AZFEX         PI2EQXDP101-AZFEX           PIZEQXDP101-ZFE         PI2EQXDP101ZFE           PI3EQX3251BLZFE         PI3EQX3251BLZFEX           PI3EQX3251BLZFEX         PI3EQX4951BZDE           PI3EQX4951BZDE         PI3EQX4951BZDEX           PI3EQX4951BTZDE         PI3EQX4951BTZDE           PI3EQX4951BTZDEX         PI3EQX4951BTZDEX           PI3EQX4951BTZDEX         PI3EQX5701ZDE           PI3EQX5701ZDE         PI3EQX5701ZDE           PI3EQX5701ZDE         PI3EQX5701ZDE           PI3EQX6701AZDE         PI3EQX6701CDE           PI3EQX6701CDE         PI3EQX6701CDE           PI3EQX6701CDE         PI3EQX6701CDE           PI3EQX6701CDE         PI3EQX6701CDE           PI3EQX6701CDEX         PI3EQX6701CDE           PI3EQX671STD	PI2EQX4401DZFEX	PI3EQX7701ZDEX		
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