

Cypress Semiconductor Package Qualification Report

**QTP# 063102 VERSION 1.0
August 2006**

**32-Lead QFN
(5 x 5 x 0.6mm)
NiPdAu, MSL1, 260C Reflow
CML-RA (Autoline)**

CYPRESS TECHNICAL CONTACT FOR QUALIFICATION DATA:

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PRODUCT QUALIFICATION HISTORY

Qual Report	Description of Qualification Purpose	Date Comp
063102	Qualify 32-Lead QFN (5x5x0.6mm) at CML-RA (Autoline), CEL9220HF13 M/C, NiPdAu Leadframe with MSL1 @260C Reflow	Aug 06

MAJOR PACKAGE INFORMATION FOR THIS QUALIFICATION	
Package Designation:	LK32
Package Outline, Type, or Name:	32-Lead QFN
Mold Compound Name/Manufacturer:	Hitachi - CEL9220HF13
Mold Compound Flammability Rating:	V-O per UL94
Oxygen Rating Index:	NA
Lead Frame Material:	Copper
Lead Finish, Composition / Thickness:	NiPdAu
Die Backside Preparation Method/Metallization:	Backgrinding
Die Separation Method:	Blade Sawing
Die Attach Supplier:	Loctite
Die Attach Material:	QMI 509
Die Attach Method:	Epoxy
Bond Diagram Designation:	001-06521
Wire Bond Method:	Thermosonic
Wire Material/Size:	Au. 0.8mil
Thermal Resistance Theta JA °C/W:	34.8°C/W
Package Cross Section Yes/No:	N/A
Assembly Process Flow:	11-20029
Name/Location of Assembly (prime) facility:	CML-RA (Autoline)
MSL Level	1
Reflow Profile	260C

ELECTRICAL TEST / FINISH DESCRIPTION	
Test Location:	CML-R

Note: Please contact a Cypress Representative for other packages availability.

RELIABILITY TESTS PERFORMED PER SPECIFICATION REQUIREMENT

Stress/Test	Test Condition (Temp/Bias)	Result P/F
Constructional Analysis	Cypress Spec. 25-20035	P
Dye Penetration	Cypress Spec. 25-00046	P

Reliability Test Data

QTP #: 063102

<i>Device</i>	<i>Fab Lot #</i>	<i>Assy Lot #</i>	<i>Assy Loc</i>	<i>Duration</i>	<i>Samp</i>	<i>Rej</i>	<i>Failure Mechanism</i>
STRESS: CONSTRUCTIONAL ANALYSIS							
CY8C21434	4623626	610645002	CML-RA	COMP	5	0	
CY8C21434	4623375	610645003	CML-RA	COMP	5	0	
CY8C21434	4624927	610645941	CML-RA	COMP	5	0	
STRESS: DYE PENETRATION							
CY8C21434	4623626	610645002	CML-RA	COMP	1000	0	
CY8C21434	4623375	610645003	CML-RA	COMP	1000	0	
CY8C21434	4624927	610645941	CML-RA	COMP	1000	0	