

Product Change Notification - CYER-02YIAF431

Date: 28 Apr 2011**Product Category:** Memory**Device Family:** **Notification subject:** CCB 1010: Qualification of Memory Products in 8L SOIC, 8L SOIJ, 8L PDIP, 8L MSOP, 3L SOT-23, 5L SOT-23, and 6L SOT-23 packages with palladium coated copper (CuPd) wire at MTAI assembly site**Notification text:**

PCN Status:
Intermediate notification

Note: The intermediate notification informs that the following device families (masks) 24xx00 (74AK2), 24xx128 (DEDV5), 25xx040A (DEBU8), 93xx56A/B/C (C5BJ2), 25xx640 (B5AB2), and 25xx320 (B5AB5) in packages 8L SOIC, and 5/6L SOT-23 may be shipped anytime after the date defined below. The remaining masks/packages may be shipped anytime after the date defined below. Attached are the catalog part number affected lists identified by the estimated first ship date.

Microchip Parts Affected:
See attachments of affected catalog part numbers (CPN) labeled as...
PCN_CYER-02YIAF431_Affected_CPN_1.xls
PCN_CYER-02YIAF431_Affected_CPN_2.xls
PCN_CYER-02YIAF431_Affected_CPN_1.pdf
PCN_CYER-02YIAF431_Affected_CPN_2.pdf

Description of Change:
Qualification of Memory Products in 8L SOIC, 8L SOIJ, 8L PDIP, 8L MSOP, 3L SOT-23, 5L SOT-23, and 6L SOT-23 packages with palladium coated copper (CuPd) wire at MTAI assembly site.

Pre Change: Gold (Au) wire

Post Change: Palladium coated copper (CuPd) wire

Impacts to Data Sheet: None

Reason for Change: To improve manufacturability

Change Implementation Status:
In Progress

Estimated First Ship Date:
June 15, 2011: Device families (masks) 24xx00 (74AK2), 24xx128 (DEDV5), 25xx040A (DEBU8), 93xx56A/B/C (C5BJ2), 25xx640 (B5AB2), and 25xx320 (B5AB5) in packages 8L SOIC and 5/6L SOT-23 (see "PCN_CYER-02YIAF431_Affected_CPN_1" attached for list of catalog part numbers).

November 4, 2011: Remaining device families/masks/packages (see "PCN_CYER-02YIAF431_Affected_CPN_2" attached for list of catalog part numbers).

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts, due to existing inventory of the pre changed parts.

Markings to Distinguish Revised from Unrevised Devices:
Traceability code

Revision History:
January 13, 2011 – Initial notification issue date.

April 28, 2011 – Intermediate notification issued: Revised estimated first ship dates for device families (masks) 24xx00 (74AK2), 24xx128 (DEDV5), 25xx040A (DEBU8), 93xx56A/B/C (C5BJ2), 25xx640 (B5AB2), and 25xx320 (B5AB5) in packages 8L SOIC and 5/6L SOT-23 and remaining device families/masks/packages. Attached qual reports.

Revision History:

January 13, 2011 – Initial notification issue date.

April 28, 2011 – Intermediate notification issued: Revised estimated first ship dates for device families (masks) 24xx00 (74AK2), 24xx128 (DEDV5), 25xx040A (DEBU8), 93xx56A/B/C (C5BJ2), 25xx640 (B5AB2), and 25xx320 (B5AB5) in packages 8L SOIC and 5/6L SOT-23 and remaining device families/masks/packages. Attached qual reports.

Attachments:

[PCN_CYER-02YIAF431_Affected_CPN_1.pdf](#)
[PCN_CYER-02YIAF431_Affected_CPN_1.xls](#)
[PCN_CYER-02YIAF431_Affected_CPN_2.pdf](#)
[PCN_CYER-02YIAF431_Affected_CPN_2.xls](#)
[PCN_CYER-02YIAF431_Qual Report_8LMSOP.pdf](#)
[PCN_CYER-02YIAF431_Qual Report_8LPDIP.pdf](#)
[PCN_CYER-02YIAF431_Qual Report_8LSOIC.pdf](#)
[PCN_CYER-02YIAF431_Qual Report_8LSOIJ.pdf](#)
[PCN_CYER-02YIAF431_Qual Report_SOT-23.pdf](#)

Please contact your local [Microchip sales office](#) with questions or concerns regarding this notification.

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MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: CYER-02YIAF431

Date
January 25, 2011

**Qualification of Memory Products in 8L PDIP packages with palladium
coated copper (CuPd) wire at MTAI assembly site**

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of Memory Products in 8L PDIP packages with palladium coated copper (CuPd) wire at MTAI assembly site
CN	BC102888
QUAL ID	Q10141
Part No.	25LC040A-E/P
MP CODE	DEBU44C4XA00
CCB No.	1010.06
<u>Package</u>	
Type	8L PDIP
Package size	300 mils
Die thickness	15 mils
Die size	54.5 x 29.8 mils
<u>Lead Frame</u>	
Paddle size	100 x 110 mils
Material	CDA194
Surface	Ag Spot plate
Process	Stamp
Lead Lock	No
Part Number	10100801
<u>Die attach material</u>	
Epoxy	8390A
Wire	Palladium coated copper (CuPd)
Mold Compound	GE800
Plating Composition	Matte Tin



MICROCHIP
PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTAI113801961	TMPE211258031.B00	1051EQQ
MTAI113802214	TMPE211258031.B00	1051G8E
MTAI113802215	TMPE211258031.B00	1051G8G

Result Pass Fail _____

8L PDIP assembled by MTAI pass reliability test per QCI-39000.

Prepared By: _____ **) Date:** January 25, 2011 **(Reliability Engineer)**

(Mr.Udom Suksansakul)

Approved By: _____ **) Date:** January 25, 2011 **(Reliability Manager)**

(Mr. Surasit Phurikhup)

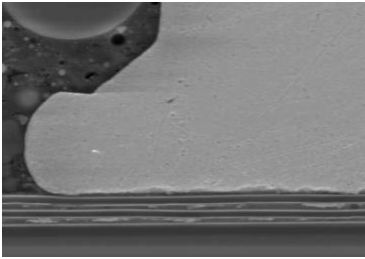
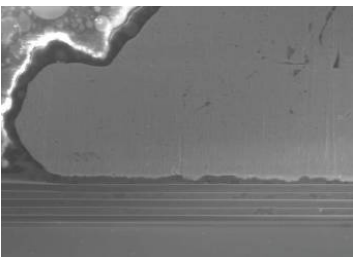
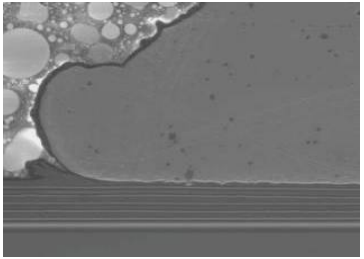
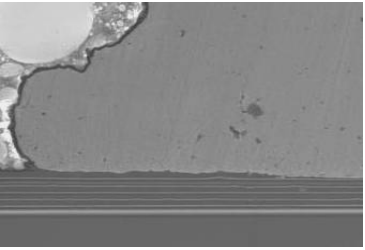
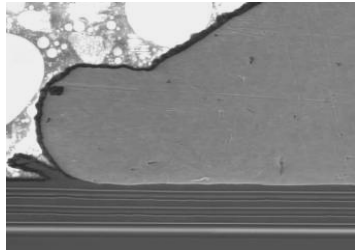
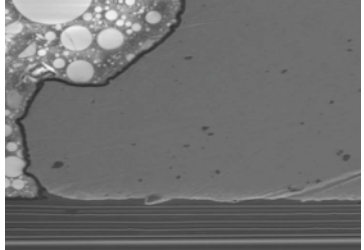
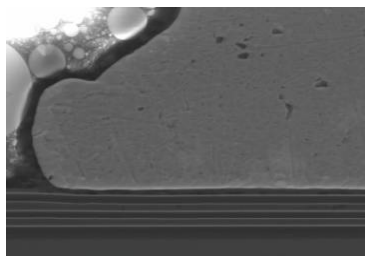
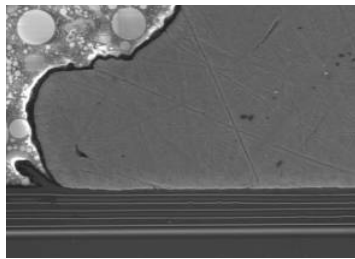
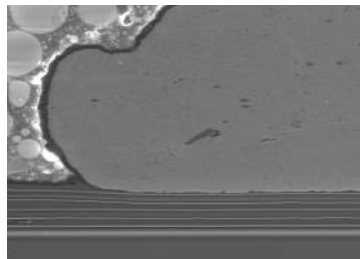
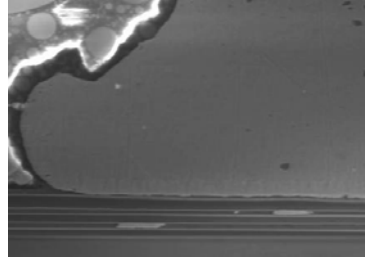
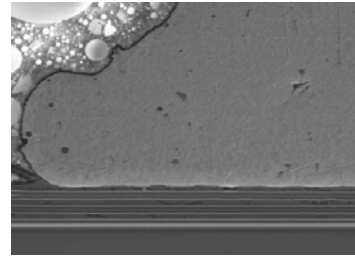
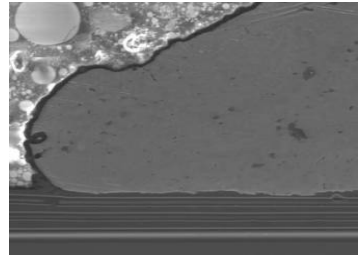
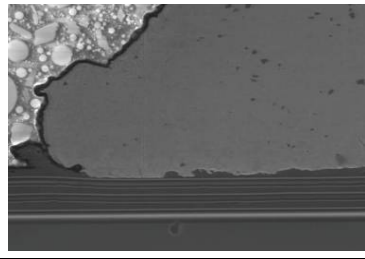
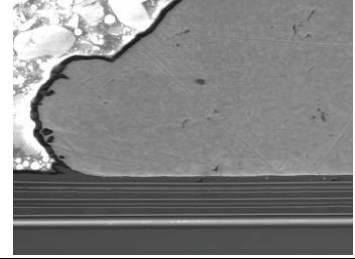
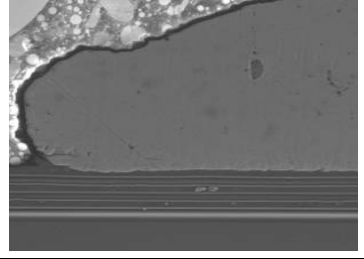
PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Electrical Test	Electrical Test: +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI113801961.000)	S12/14/16 (PDC)	693(0)	12/22/10	12/24/10	693		Good Devices
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		12/25/10	01/05/11	231		
	Electrical Test: + 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI113801961.000)	QCI-33003 (PDC)	30(0)	01/05/11	01/05/11	0/30		
	Electrical Test: + 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI113801961.000)	S12/14/16 (PDC)	231(0)	01/05/11	01/08/11	0/231	Pass	77 units / lot
	Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	01/08/11 01/08/11	01/08/11 01/08/11	0/15 0/15	Pass Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HIRAYAMA TPC-422R	PI-91261B		12/25/10	12/29/10	231		
	Electrical Test: +25°C System: NEXTEST_PT	S12/14/16 (PDC)	231(0)	12/29/10	01/03/11	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		12/25/10	12/29/10	231		
	Electrical Test: +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA113801961.000)	S12/14/16 (PDC)	231(0)	12/29/10	01/04/11	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 150°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		12/27/10	01/20/11	135		45 units
	Electrical Test: +25°C and 125°C System: NEXTEST_PT	(PDC)	135(0)	01/20/11	01/22/11	0/135	Pass	
X-ray	Wire sweep Inspection 15 Wires / lot	QCI-91024	45(0) Wires	01/17/11	01/17/11	0/45		
Cross section	Cross section Inspection 5 units / lot	-	15(0) Wires	01/17/11	01/17/11	0/15	Pass	
Cratering Test	Cratering Test and Inspection 5 units / lot	PI-91039	15(0) Wires	01/17/11	01/17/11	0/15	Pass	
Bond Strength Data Assembly	Bond Shear (12.40 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 4 grams)		30 (0) wires	-	-	0/30	Pass	

Cross Section

No.	MTAI113801961.000	MTAI113802214.000	MTAI113802215.000
#1			
#2			
#3			
#4			
#5			
Result	Accepted	Accepted	Accepted



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: CYER-02YIAF431

Date
March 08, 2011

Qualification of Memory Products in 6L SOT-23 packages with palladium coated copper (CuPd) wire at MTAI assembly site. 3L & 5L SOT-23 Qualify by similarity.

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of Memory Products in 6L SOT-23 packages with palladium coated copper (CuPd) wire at MTAI assembly site. 3L & 5L SOT-23 Qualify by similarity.
CN	BC110288
QUAL ID	Q11003
MP CODE	DEBU8YC8XA00
Part No.	25LC040AT-E/OT
CCB No.	1010.05
<u>Package</u>	
Type	6L SOT23
Die thickness	8 mils
Die size	54.50 x 29.80 mils
<u>Lead Frame</u>	
Paddle size	72 x 41 mils
Material	CDA194
Surface	Ag Spot plate
Process	Stamped
Lead Lock	No
Part Number	10100602
<u>Die attach material</u>	
Epoxy	8900NC
Wire	Palladium coated copper (CuPd)
Mold Compound	SG-8300GM
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTA1114303006	TMPE211258058.100	1104Q66
MTA1114303470	TMPE211258058.100	1104SKM
MTA1114303471	TMPE211258058.100	1104SKP

Result

Pass Fail _____

6L SOT23 assembled by MTAI pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020C standard.

Prepared By: _____) Date: March 08, 2011 (Reliability Engineer)

(Mr.Udom Suksansakul)

Approved By: _____) Date: March 08, 2011 (Reliability Manager)

(Mr.Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
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<u>MSL</u>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	02/01/11	02/10/11	0/135	Pass	

<u>Precondition</u>								
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI114303471.000)	S12/14/16 (PDC)	693(0)	01/27/11	01/31/11	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		02/01/11	02/02/11	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		02/02/11	02/09/11	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		02/09/11	02/09/11	693		
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI114303471.000)	S12/14/16 (PDC)		02/09/11	02/12/11	0/693	Pass	

PACKAGE QUALIFICATION REPORT

Qual Report : Q11003

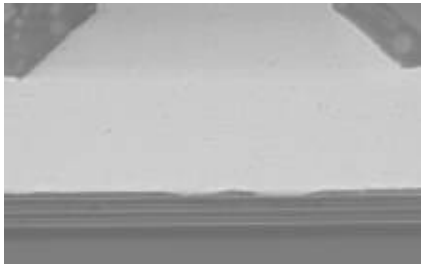
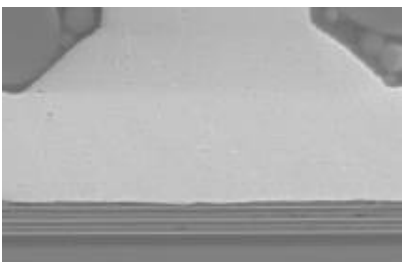
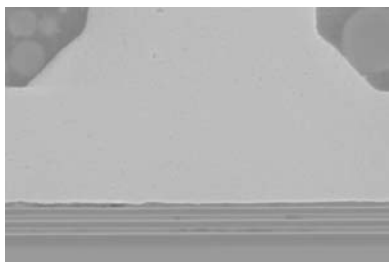

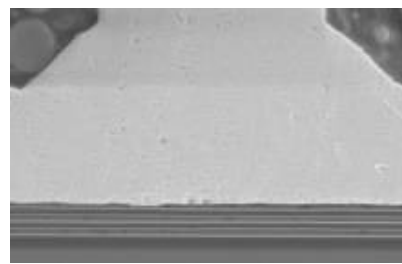
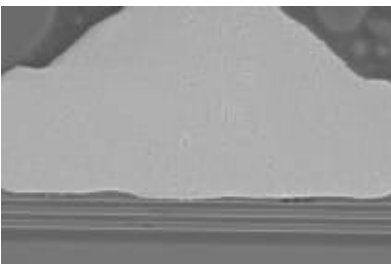


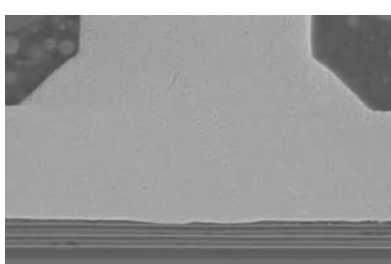
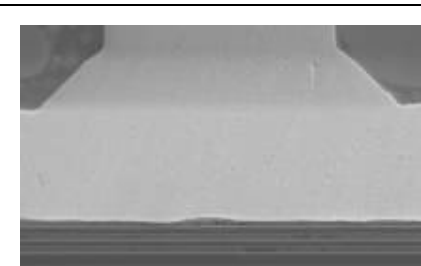
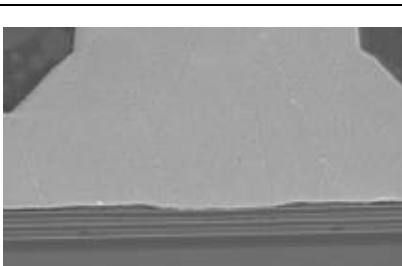
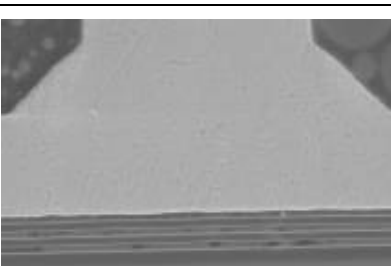
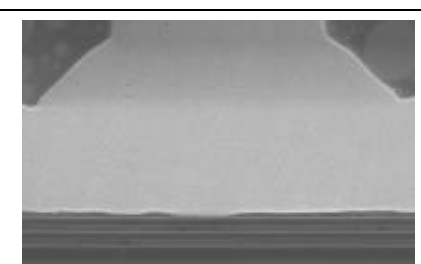
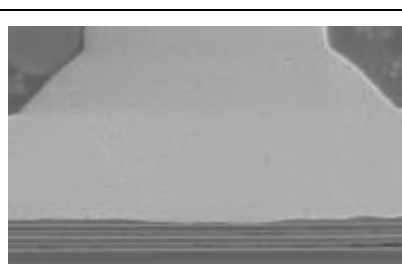
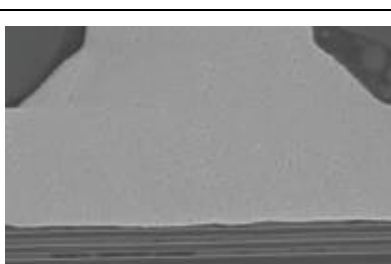
Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		02/15/11	03/01/11	231		Parts had been pre-conditioned at 260°C
		QCI-33003	30(0)	03/01/11	03/01/11	0/30		
	Electrical Test: + 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA114303471.000)	S12/14/16 (PDC)	231(0)	03/01/11	03/03/11	0/231	Pass	77 units / lot
	Bond Strength: Bond Shear (14.00 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	03/03/11 03/03/11	03/03/11 03/03/11	0/15 0/15	Pass Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-91261B		02/15/11	02/23/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: NEXTEST_PT	S12/14/16 (PDC)	231(0)	02/23/11	02/25/11	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Qual Report : Q11003

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		02/15/11	02/23/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA114303471.000)	S12/14/16 (PDC)	231(0)	02/23/11	02/24/11	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		01/31/11	02/24/11	45		45 units
	Electrical Test: +25°C and 85°C System: NEXTEST_PT	(PDC)	45(0)	02/24/11	02/24/11	0/45	Pass	
X-ray	Wire sweep Inspection 15 Wires / lot	QCI-91024	45(0) Wires	03/07/11	03/07/11	0/45	Pass	
Cross section	Cross section Inspection 5 units / lot	-	15(0) Wires	03/07/11	03/07/11	0/15	Pass	
Cratering Test	Cratering Test and Inspection 5 units / lot	PI-91039	15(0) Wires	03/07/11	03/07/11	0/15	Pass	
Bond Strength Data Assembly	Bond Shear (14.00 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 4 grams)		30 (0) wires	-	-	0/30	Pass	

Cross Section

No.	MTAI114303006.000	MTAI114303470.000	MTAI114303471.000
#1			
#2			
#3			
#4			
#5			
Result	Accepted	Accepted	Accepted



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: CYER-02YIAF431

Date
January 13, 2011

**Qualification of Memory Products in 8L MSOP packages with palladium
coated copper (CuPd) wire at MTAI assembly site**

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of Memory Products in 8L MSOP packages with palladium coated copper (CuPd) wire at MTAI assembly site
CN	BC102929
QUAL ID	Q10122
MP CODE	DEBU44A3XA00
Part No.	25LC040A-E/MS
CCB No.	1010.03
<u>Package</u>	
Type	8L MSOP
Package size	3 x 3 mm
Die thickness	8 mils
Die size	54.5 x 29.8 mils
<u>Lead Frame</u>	
Paddle size	82 x 94 mils
Material	CDA194
Surface	Ag Spot plate
Process	Stamp
Lead Lock	No
Part Number	10100834
<u>Die attach material</u>	
Epoxy	8390A
Wire	Palladium coated copper (CuPd)
Mold Compound	SG-8300GM
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTA1113403850	TMPE211258031.410	1047P5Q
MTA1113403905	TMPE211258031.410	1047PWU
MTA1113403906	TMPE211258031.410	1047PWV

Result

Pass Fail _____

8L MSOP assembled by MTAI pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020C standard.

Prepared By: _____) Date: January 13, 2011 (Reliability Engineer)

(Mr.Udom Suksansakul)

Approved By: _____) Date: January 13, 2011 (Reliability Manager)

(Mr. Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
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<u>MSL</u>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	12/04/10	12/13/10	0/135	Pass	

<u>Precondition</u>								
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI113403850.000)	S12/14/16 (PDC)	693(0)	11/26/10	12/04/10	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		12/04/10	12/05/10	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		12/05/10	12/12/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		12/12/10	12/13/10	693		
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI113403850.000)	S12/14/16 (PDC)		12/13/10	12/15/10	0/693	Pass	

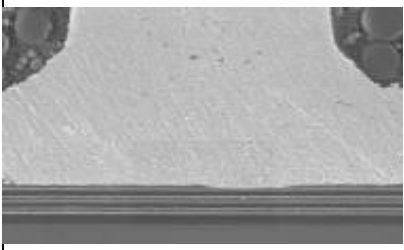

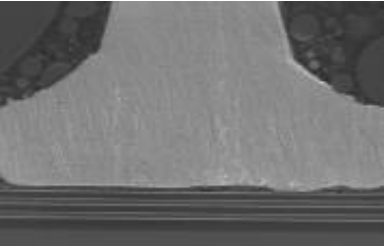
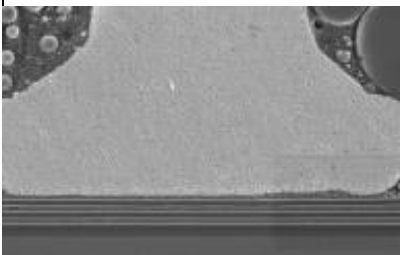
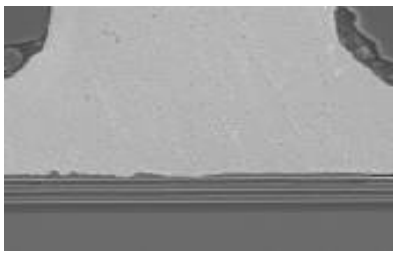
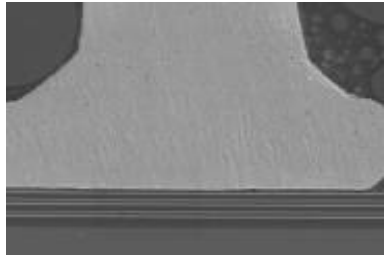


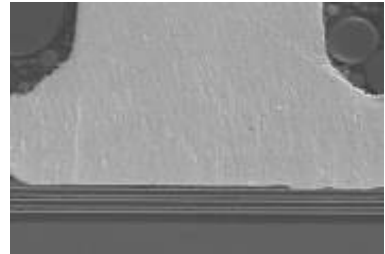
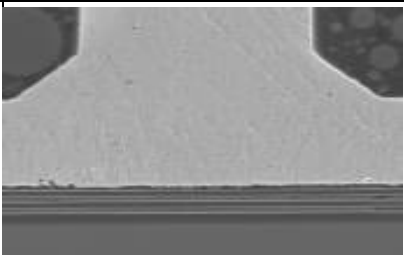
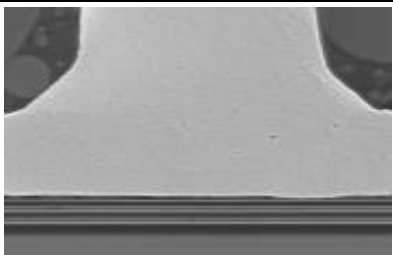
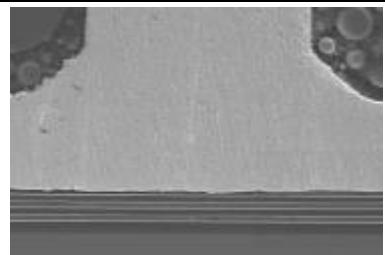
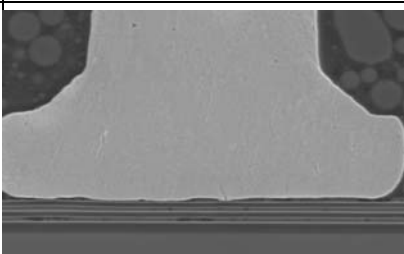


PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		12/16/10	12/29/10	231		Parts had been pre-conditioned at 260°C
		QCI-33003	30(0)	12/29/10	12/29/10	0/30		
	Electrical Test: + 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA113403850.000)	S12/14/16 (PDC)	231(0)	12/29/10	01/03/11	0/231	Pass	77 units / lot
UNBIASED-HAST	Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	01/03/11 01/04/11	01/04/11 01/04/11	0/15 0/15	Pass Pass	
	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-91261B		12/17/10	12/21/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: NEXTEST_PT	S12/14/16 (PDC)	231(0)	12/21/10	12/22/10	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		12/17/10	12/21/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA113403850.000)	S12/14/16 (PDC)	231(0)	12/21/10	12/22/10	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		12/04/10	12/27/10	45		45 units
	Electrical Test: +25°C and 85°C System: NEXTEST_PT	(PDC)	45(0)	12/27/10	01/04/11	0/45	Pass	
X-ray	Wire sweep Inspection 15 Wires / lot	QCI-91024	45(0) Wires	01/11/11	01/11/11	0/45	Pass	
Cross section	Cross section Inspection 5 units / lot	-	15(0) Wires	01/11/11	01/11/11	0/15	Pass	
Cratering Test	Cratering Test and Inspection 5 units / lot	PI-91039	15(0) Wires	01/11/11	01/11/11	0/15	Pass	
Bond Strength Data Assembly	Bond Shear (12.40 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 4 grams)		30 (0) wires	-	-	0/30	Pass	

Cross Sections

No.	MTAI113403850.000	MTAI113403905.000	MTAI113403906.000
#1			
#2			
#3			
#4			
#5			
Result	Accepted	Accepted	Accepted



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: CYER-02YIAF431

Date
February 24, 2011

Qualification of Memory Products in 8L SOIC packages with palladium coated copper (CuPd) wire at MTAI assembly site

Distribution

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MICROCHIP PACKAGE QUALIFICATION REPORT

Purpose	Qualification of Memory Products in 8L SOIC packages with palladium coated copper (CuPd) wire at MTAI assembly site
CN	BC110221
QUAL ID	Q11002
MP CODE	DEDV54C2XA00
Part No.	24LC128-E/SN
CCB No.	1010.02
<u>Package</u>	
Type	8L SOIC
Package size	150 mils
Die thickness	15 mils
Die size	68.2 x 49.4 mils
<u>Lead Frame</u>	
Paddle size	90 x 90 mils
Material	A194
Surface	Ag Spot plate
Process	Stamped
Lead Lock	No
Part Number	10100808
<u>Die attach material</u>	
Epoxy	8390A
Wire	Palladium coated copper (CuPd)
Mold Compound	SG-8300GM
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTA1114202845	GRSM411032752.120	1103CMR
MTA1114202936	GRSM411032752.120	1103CRW
MTA1114202996	GRSM411032752.120	1103CU1

Result

Pass Fail _____

8L SOIC assembled by MTAI pass reliability test per QCI-39000. This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020C standard.

Prepared By: _____ **Date:** February 24, 2011 **(Reliability Engineer)**

(Mr.Udom Suksansakul)

Approved By: _____ **Date:** February 24, 2011 **(Reliability Manager)**

(Mr.Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
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<u>MSL</u>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	01/24/11	02/01/11	0/135	Pass	

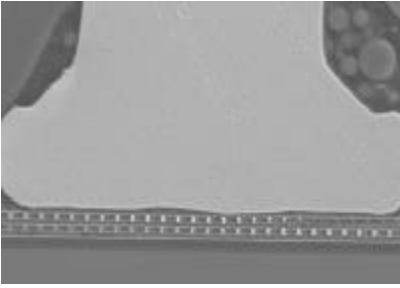
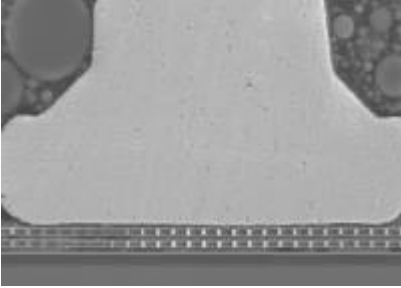
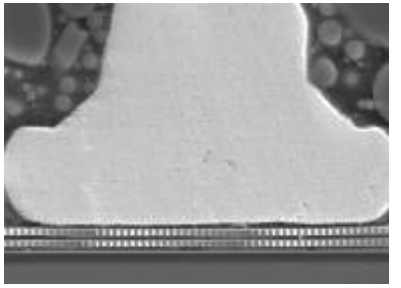
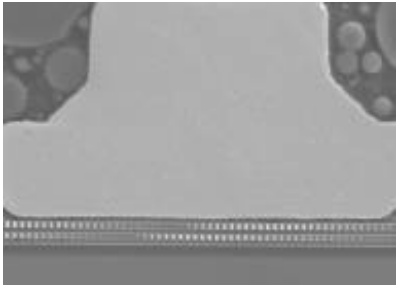
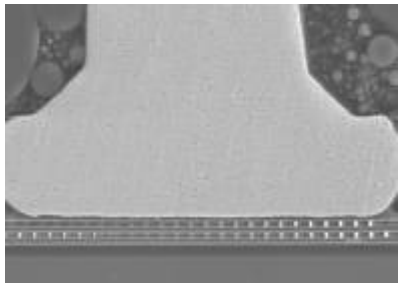
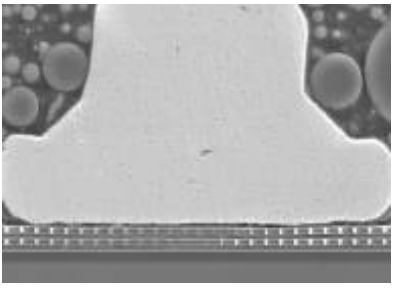
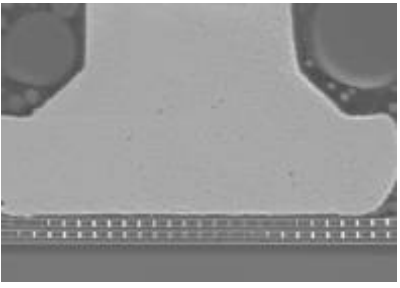
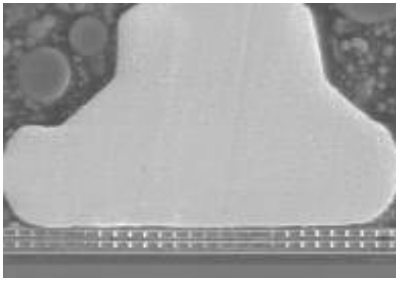
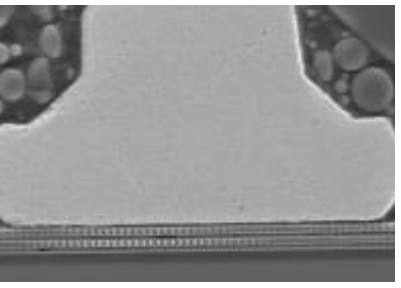
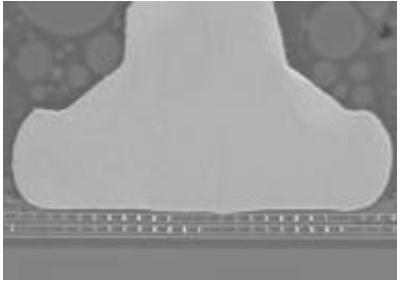
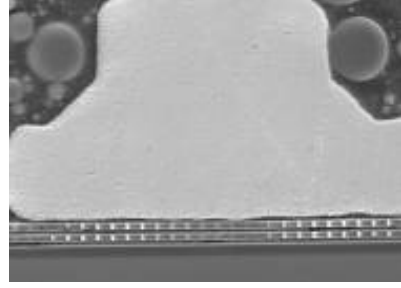
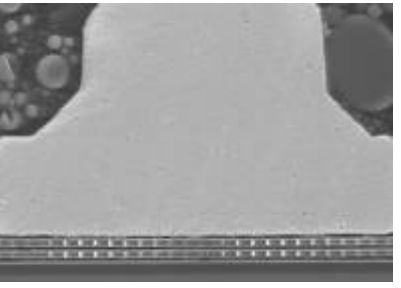
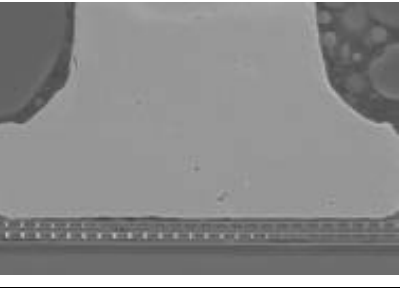
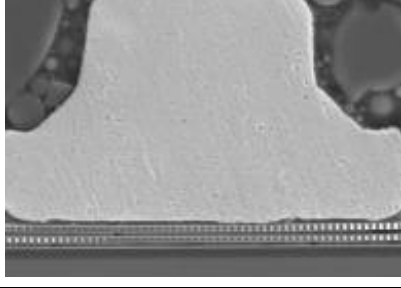
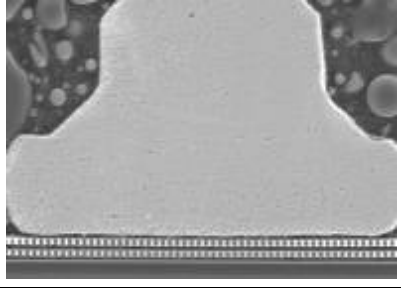
<u>Precondition</u>								
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI114202845.000)	S12/14/16 (PDC)	693(0)	01/17/11	01/19/11	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		01/24/11	01/25/11	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		01/25/11	02/01/11	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		02/01/11	02/01/11	693		
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI114202845.000)	S12/14/16 (PDC)		02/01/11	02/03/11	0/693	Pass	

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		02/05/11	02/19/11	231		Parts had been pre-conditioned at 260°C
		QCI-33003	30(0)	02/19/11	02/19/11	0/30		
	Electrical Test: + 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA114202845.000)	S12/14/16 (PDC)	231(0)	02/19/11	02/22/11	0/231	Pass	77 units / lot
UNBIASED-HAST	Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	02/22/11 02/22/11	02/22/11 02/22/11	0/15 0/15	Pass Pass	
	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-91261B		02/05/11	02/12/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: NEXTEST_PT	S12/14/16 (PDC)	231(0)	02/12/11	02/14/11	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		02/05/11	02/09/11	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA114202845.000)	S12/14/16 (PDC)	231(0)	02/09/11	02/11/11	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		01/20/11	02/12/11	45		45 units
	Electrical Test: +25°C and 85°C System: NEXTEST_PT	(PDC)	45(0)	02/12/11	02/14/11	0/45	Pass	
X-ray	Wire sweep Inspection 15 Wires / lot	QCI-91024	45(0) Wires	02/23/11	02/23/11	0/45	Pass	
Cross section	Cross section Inspection 5 units / lot	-	15(0) Wires	02/23/11	02/23/11	0/15	Pass	
Cratering Test	Cratering Test and Inspection 5 units / lot	PI-91039	15(0) Wires	02/23/11	02/23/11	0/15	Pass	
Bond Strength Data Assembly	Bond Shear (12.40 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 4 grams)		30 (0) wires	-	-	0/30	Pass	

Cross Section			
No.	MTAI114202845.000	MTAI114202936.000	MTAI114202996.000
#1			
#2			
#3			
#4			
#5			
Result	Accepted	Accepted	Accepted



MICROCHIP

**QUALIFICATION REPORT
RELIABILITY LABORATORY**

PCN #: CYER-02YIAF431

Date
January 11, 2011

**Qualification of Memory Products in 8L SOIJ packages with palladium
coated copper (CuPd) wire at MTAI assembly site**

Distribution

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MICROCHIP

PACKAGE QUALIFICATION REPORT

Purpose	Qualification of Memory Products in 8L SOIJ packages with palladium coated copper (CuPd) wire at MTAI assembly site
CN	BC102954
QUAL ID	Q10127
MP CODE	DECY24C3XA00
Part No.	25LC512-E/SM
CCB No.	1010.04
<u>Package</u>	
Type	8L SOIJ
Package size	208 mils
Die thickness	15 mils
Die size	77.7 x 140.7 mils
<u>Lead Frame</u>	
Paddle size	140 x 160 mils
Material	CDA194
Surface	Ag Spot plate
Process	Stamp
Lead Lock	No
Part Number	10100816
<u>Die attach material</u>	
Epoxy	8390A
Wire	Copper with Palladium coated (CuPd)
Mold Compound	SG-8300GM
Plating Composition	Matte Tin



MICROCHIP PACKAGE QUALIFICATION REPORT

Manufacturing Information

Assembly Lot No.	Wafer Lot No.	Trace Code
MTA1113403852	GRSM411103761.200	1047P5U
MTA1113403890	GRSM411103761.200	1047PVB
MTA1113403902	GRSM411103761.200	1047PW2

Result Pass Fail _____

8L SOIJ (.208") assembled by MTAI pass reliability test per QCI-39000.
This package was qualified the Moisture/Reflow Sensitivity Classification Level 1 at 260°C reflow temperature per IPC/JEDEC J-STD-020C standard.

Prepared By: _____ **Date:** January 11, 2011 **(Reliability Engineer)**

(Mr.Udom Suksansakul)

Approved By: _____ **Date:** January 11, 2011 **(Reliability Manager)**

(Mr. Surasit Phurikhup)

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
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<u>MSL</u>								
MSL Level 1/260°C	85°C/ 85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH 3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243 (IPC/JEDEC J-STD-020C)	S12/14/16 (PDC)	135	12/02/10	12/11/10	0/135	Pass	

<u>Precondition</u>								
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI113403852.000)	S12/14/16 (PDC)	693(0)	11/30/10	12/02/10	693		Good Devices
Bake	Bake 150°C, 24 hrs System: CHINEE	PI-92014B		12/02/10	12/04/10	693		
Moisture Soak	85°C/85%RH Moisture Soak 168 hrs. System: TABAI ESPEC Model PR-3SPH	PI-91173B		12/04/10	12/11/10	693		
Convection-Reflow	3x Convection-Reflow 260°C max System: Vitronics Soltec MR1243	PI-91160B		12/11/10	12/11/10	693		
Electrical Test	Electrical Test :+25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTAI113403852.000)	S12/14/16 (PDC)		12/11/10	12/15/10	0/693	Pass	

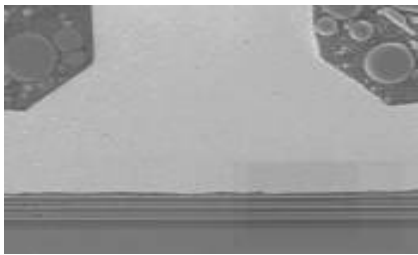
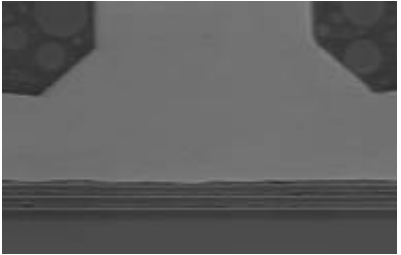
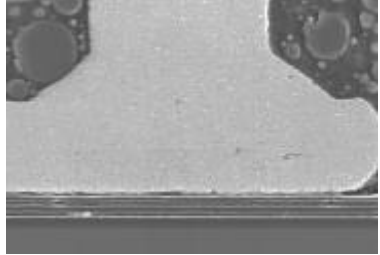
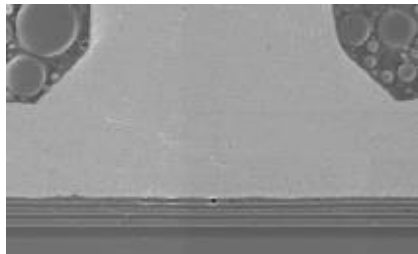


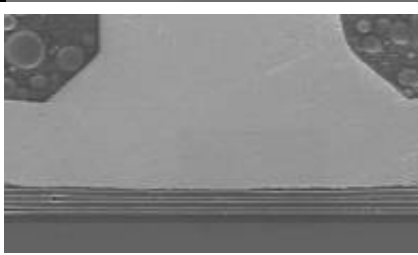
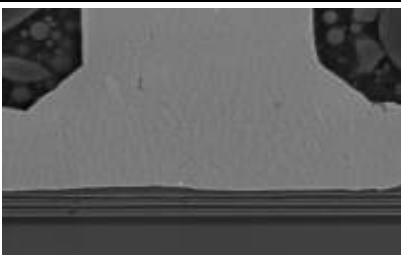
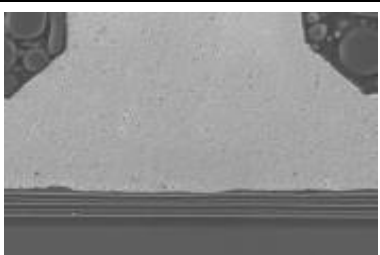
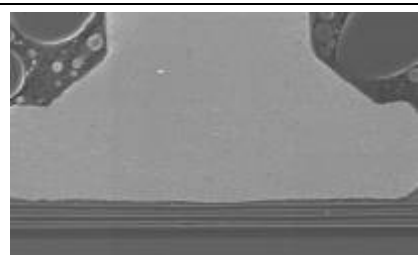





PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
Temp Cycle	Stress Condition: -65°C to +150°C, 500 Cycles System : TABAI ESPEC TSA-70H Inspection: External crack inspection all units under 40X Optical magnification	PI-91020B		12/15/10	12/27/10	231		Parts had been pre-conditioned at 260°C
		QCI-33003	30(0)	12/27/10	12/27/10	0/30		
	Electrical Test: + 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA1113403852.000)	S12/14/16 (PDC)	231(0)	12/27/10	12/29/10	0/231	Pass	77 units / lot
	Bond Strength: Bond Shear (12.40 grams) Wire Pull (> 3 grams)	QCI-91022	15 (0) 15 (0)	12/29/10 12/29/10	12/30/10 12/30/10	0/15 0/15	Pass Pass	
UNBIASED-HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-91261B		12/17/10	12/21/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C System: NEXTEST_PT	S12/14/16 (PDC)	231(0)	12/21/10	12/22/10	0/231	Pass	77 units / lot

PACKAGE QUALIFICATION REPORT

Test Number (Reference)	Test Condition	Microchip Spec	Qty. (Acc.)	Date in	Date Out	Def/SS.	Result	Remarks
HAST	Stress Condition: +130°C/85%RH, 96 hrs. System: HAST 6000X	PI-92010B		12/17/10	12/21/10	231		Parts had been pre-conditioned at 260°C
	Electrical Test: +25°C and 85°C System: NEXTEST_PT (Test 1 lot 125°C on MTA113403852.000)	S12/14/16 (PDC)	231(0)	12/21/10	12/22/10	0/231	Pass	77 units / lot
High Temperature Storage Life	Stress Condition: Bake 175°C, 504 hrs System: CHINEE	PI-92014B S12/14/16		12/02/10	12/26/10	45		45 units
	Electrical Test: +25°C and 85°C System: NEXTEST_PT	(PDC)	45(0)	12/26/10	12/28/10	0/45	Pass	
X-ray	Wire sweep Inspection 15 Wires / lot	QCI-91024	45(0) Wires	01/11/11	01/11/11	0/45	Pass	
Cross section	Cross section Inspection 5 units / lot	-	15(0) Wires	01/11/11	01/11/11	0/15	Pass	
Cratering Test	Cratering Test and Inspection 5 units / lot	PI-91039	15(0) Wires	01/11/11	01/11/11	0/15	Pass	
Bond Strength Data Assembly	Bond Shear (12.40 grams)	QCI-91022	30 (0) bonds	-	-	0/30	Pass	
	Wire Pull (> 4 grams)		30 (0) wires	-	-	0/30	Pass	

Cross Section

No.	MTAI113403852.000	MTAI113403890.000	MTAI113403902.000
#1			
#2			
#3			
#4			
#5			
Result	Accepted	Accepted	Accepted

PCN_CYER-02YIAF431
Estimated First Ship Date 5-13-2011
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24AA00T/SN
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24AA00T-I/OTVAO
24AA00T-I/SN
24AA00T-I/SNB22
24AA128-I/SN
24AA128T-I/SN
24LC00/SN
24LC00-I/SN
24LC00T/OT
24LC00T/SN
24LC00T-I/OT
24LC00T-I/OTA31
24LC00T-I/OTV02
24LC00T-I/SN
24LC00T-I/SNA23
24LC128-E/SN
24LC128-I/SN
24LC128T-E/SN
24LC128T-I/SN
25AA040AT-I/OT
25AA320-I/SN
25AA320T-I/SN
25AA640-I/SN
25AA640T-I/SN
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25C320-E/SN
25C320-E/SNG
25C320-I/SN
25C320-I/SNG
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25LC320-E/SN
25LC320-E/SN12KVAO
25LC320-E/SNG
25LC320-E/SNG12KV02

25LC320-E/SNG12KVAO
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25LC320-I/SNG
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PCN_CYER-02YIAF431
Estimated First Ship Date 11-4-2011
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24FC128T-I/SNRVE
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24LC02BT/SNA31
24LC02BT-E/MS
24LC02BT-E/OT
24LC02BT-E/OT16KVAO
24LC02BT-E/SN
24LC02BT-E/SN15KV01
24LC02BT-E/SN15KV04
24LC02BT-E/SN16KV03
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24LC02BT-I/OT15KVAO
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24LC04B-E/P
24LC04B-E/SN
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24LC04B-I/P
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24LC04B-I/SN16KVAO
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24LC04BT-E/SN15KV03
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24LC08B-E/P
24LC08B-E/SN
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24LC08BH-E/P
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24LC08BH-I/MS
24LC08BH-I/P
24LC08BH-I/SN
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24LC08BHT-E/SN
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24LC08BT-I/SNA27
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24LC128T-E/SM
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24LC16B-E/P
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24LC16BH-E/P
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24LC16BT-I/OTG15KV04
24LC16BT-I/OTG15KV05
24LC16BT-I/SN
24LC16BT-I/SN15KV01
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24LC32AFT-E/MS
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24LC32A-I/P
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24LC512-I/SMRVE
24LC512-I/SN
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24LC512T-E/SM16KVAO
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24LC512T-I/SMRVE
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24LC64-E/SN16KVAO

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24LC65-I/SMG

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24LC65T-I/SMG
24LC65T-I/SMVAO
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24VL025T/OT
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25AA040T-I/SN
25AA080/P
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25AA320X-I/STG
25AA320XT-I/ST
25AA512-I/P

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25AA512T-I/SN
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25AA640AT-I/MS16KVAO
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25LC010AT-E/SN16KV02
25LC010AT-E/SN16KVAO
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25LC040T-I/SNV02
25LC040T-I/SNVAO

25LC080/P
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25LC080BT-I/MS
25LC080BT-I/MS15KV02
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25LC1024T-E/SM16KVAO
25LC1024T-I/SM
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25LC1024T-I/SMA21
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25LC128T-E/SM
25LC128T-E/SN
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25LC128T-E/SN16KV02
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25LC128T-H/SN
25LC128T-I/SM
25LC128T-I/SN
25LC160/P
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25LC160A-E/P
25LC160A-E/SN
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25LC160A-I/P
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25LC160AT-E/MS
25LC160AT-E/SN
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