

Product Change Notification - JAON-09ONJN702

Date: 20 Oct 2014

Product Category: Touch Sensing Technologies; 16-bit Microcontrollers and Digital Signal Controllers; Analog (Linear & Mixed Signal) AND Interface; SMSC; 8-bit Microcontrollers

Notification subject: CCB 1155.36 Initial Notice: Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP

Notification text: **PCN Status:**
Initial notification

Microchip Parts Affected:

See attachments of affected catalog part numbers (CPN) labeled as...

PCN_JAON-09ONJN702_Affected_CPN.xls

PCN_JAON-09ONJN702_Affected_CPN.pdf

Description of Change:

Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP package at MTAI assembly site.

NOTE: Selected products are non-automotive devices. Please review the affected CPN lists (attached) to identify the actual parts affected.

Impacts to Data Sheet:

None

Reason for Change:

To improve manufacturability and qualify PdCu bond wire at MTAI assembly site.

Change Implementation Status:

In Progress

Estimated First Ship Date:

December 19, 2014 (date code: 1451)

NOTE: Please be advised that after the estimated first ship date customers may receive pre and post change parts.

Markings to Distinguish Revised from Unrevised Devices:

Traceability code

Revision History:

October 20, 2014: Issued initial notification.

The change described in this PCN does not alter Microchip's current regulatory compliance regarding the material content of the applicable products.

Attachment(s): [PCN_JAON-09ONJN702_Qual Plan.pdf](#) [PCN_JAON-09ONJN702_Affected CPN.pdf](#) [PCN_JAON-09ONJN702_Affected CPN.xls](#)

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PCN_JAON-09ONJN702
CATALOG_PART_NBR
A010201-I/SS
A010201T-I/SS
AR1010-I/SS
AR1010T-I/SS
AR1011-I/SS
AR1011T-I/SS
AR1020-I/SS
AR1020T-I/SS
AR1021-I/SS
AR1021T-I/SS
AR1100-I/SS
AR1100T-I/SS
CFPIC-I/SSC01
DSPIC33FJ06GS001-E/SS
DSPIC33FJ06GS001-I/SS
DSPIC33FJ06GS001T-E/SS
DSPIC33FJ06GS001T-I/SS
DSPIC33FJ06GS101A-E/SS
DSPIC33FJ06GS101A-I/SS
DSPIC33FJ06GS101AT-E/SS
DSPIC33FJ06GS101AT-I/SS
DSPIC33FJ16GP101-E/SS
DSPIC33FJ16GP101-H/SS
DSPIC33FJ16GP101-I/SS
DSPIC33FJ16GP101T-E/SS
DSPIC33FJ16GP101T-I/SS
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DSPIC33FJ16MC101-H/SS
DSPIC33FJ16MC101-I/SS
DSPIC33FJ16MC101T-E/SS
DSPIC33FJ16MC101T-I/SS
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HA1031-I/SS

HA1031T-I/SS
HA1218-I/SS
HA1515-I/SS
HA1515T-I/SS
HA2022-I/SS
HA2022T-I/SS
HA2525-I/SS
HA2525T-I/SS
HA2580-I/SS
HA2580T-I/SS
HA5288-I/SS
HA5288T-I/SS
HA98K99-I/SS
HA98K99T-I/SS
HB12-100POS/12PB30
HC12-100PAS/12PC51
HI12-100PAS/12PI30
HI12-100PIS/12PI30
HI12-100PIS/12PI30TR
HS12-100P0/12PS0F
HS12-100P0/12PS0FTR
HS12-100P0/12PS15
HS12-100POS/12PS25
HS12-100POS/12PS25TR
HS12-100POS/12PS30
HS12-100POS/12PS30TR
HS12-100PAS/12PS30TR
HS12-100PIS/12PS25
HS12-100PIS/12PS30
HT12-100POS/12PT49
HT12-100POS/12PT49TR
HT12-100PAS/12PT49
HT12-100PDS/12PA49
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PIC16C54C-04I/SS102
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PIC16HV785-I/SS
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PIC16LC622AT-04I/SS
PIC16LC622T-04/SS
PIC16LC710-04/SS
PIC16LC710-04I/SS
PIC16LC711-04/SS
PIC16LC711-04E/SS
PIC16LC711-04I/SS
PIC16LC711T-04/SS
PIC16LC711T-04I/SS
PIC16LC712-04/SS
PIC16LC712-04I/SS
PIC16LC712T-04I/SS
PIC16LC712T-04I/SS039
PIC16LC715-04/SS
PIC16LC715-04I/SS
PIC16LC715T-04/SS
PIC16LC715T-04I/SS
PIC16LC716-04/SS
PIC16LC716-04I/SS
PIC16LC716T-04/SS
PIC16LC717/SS
PIC16LC717-E/SS
PIC16LC717-I/SS
PIC16LC717-I/SS032
PIC16LC717T/SS
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PIC16LC770-E/SS
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PIC24FV32KA301T-I/SS
SW1100T-I/SS



MICROCHIP

QUALIFICATION PLAN

PCN #: JAON-09ONJN702

Date

Oct 9, 2014

Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP package at MTAI assembly site

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Purpose: _____ Qualification of palladium coated copper (PdCu) bond wire in selected products of the 90K, 120K, 121K, 150K, 160K, 200K, and 0.25um wafer technologies available in 20L SSOP package at MTAI assembly site

CCB No.: _____ 1155.36

Lot#	Mask	Product part number	Wafer technology	Die size (mils)	LF Pad size (mils)	BD#
1	A5AB8	PIC16F628/PIC16LF628	90/120/121K	176.3x134.7	154x200	BDM-000657/A
2	DEBW1	PIC18F1330/PIC18LF1330	150/160K	132.7X111.3	154x200	BDM-000656/A
3	LEAK1	PIC24F16KA101	200K	122.4X125.1	154x200	BDM-000658/A
4	YGAQ1	DSPIC33FJ12MC201	0.25um TSMC	123.9X135.3	154x200	BDM-000659/A

Package:

Type _____ 20L SSOP
Width or Size _____ 209 mils
Die thickness: _____ 15 mils
Die size: _____ see above table

Lead frame:

Paddle size: _____ 154 x 200
Material _____ A194
Surface _____ Bare copper on paddle
Process _____ Stamp
Lead Lock _____ Yes
Treatment _____ Brown Oxide Treatment

Wire:

Material _____ PdCu

Die Attach Epoxy:

Part Number _____ 3280
Conductive _____ Yes

Mold Compound: _____ G600

Lead finish: _____ Matte tin

Reliability Test plan: _____ See attached, STD Package Reliability Test plan on each package.

Test Name	Conditions	Sample Size	Min. Qty of Spares per Lot (should be properly marked)	Qty of Lots	Total Units	Fail Accept Qty	Est. Dur. Days	Special Instructions
Wire Bond Pull - WBP	Mil. Std. 883-2011	5	0	1	5	0 fails after TC	5	30 bonds from a minimum of 5 devices.
Wire Bond Shear - WBS	CDF-AEC-Q100-001	5	0	1	5	0	5	30 bonds from a minimum of 5 devices.
HTSL (High Temp Storage Life)	+175 C for 504 hours or 150°C for 1008 hrs. Electrical test pre and post stress at +25C and hot temp.	45	5	1	50	0	10	Must be in progress at time of package release to production, but completion is not required for release to production.
Preconditioning - Required for surface mount devices	+150°C Bake for 24 hours, moisture loading requirements per MSL level + 3X reflow at peak reflow temperature per Jedec-STD-020D for package type; Electrical test pre and post stress at +25°C. Perform SAM analysis using the standard sample size. MSL-1 @ 260°C	231	15	4	984	0	15	Spares should be properly identified. 77 parts from each lot to be used for HAST, Autoclave, Temp Cycle test.
HAST	+130°C/85% RH for 96 hours. Electrical test pre and post stress at +25°C and hot temp. Extend to 192 hrs. 1 lot tested at 85 and 125C	77	5	4	328	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Unbiased HAST	+130°C/85% RH for 96 hrs Extend to 192 hrs.	77	5	4	328	0	10	Spares should be properly identified. Use the parts which have gone through Pre-conditioning.
Temp Cycle	-65°C to +150°C for 500 cycles. Electrical test pre and post stress at hot temp; 3 gram force WBP, on 5 devices from 1 lot, test following Temp Cycle stress. Extend to 1000 cycles 1 lot tested at 85 and 125C	77	5	4	328	0	15	Spares should be properly identified. Use the parts which have gone through Pre-conditioning