

Product Change Notification - JAON-31GTPQ691

Date: 04 May 2017

Product Category: Power Management - System Supervisors/Voltage Detectors; Power Management - Power Switches; Switching Regulators; Power Management - PMIC; General Purpose LED Drivers; Power Management - Power Modules; Linear Regulators; Power Management - Terminators

Notification subject: CCB 2837 Intermediate Notice: Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology.

Notification text: **PCN Status:**
Intermediate notification

Microchip Parts Affected:

Please open the attachments found in the attachments field below labeled as PCN_#_Affected_CPN.

NOTE: For your convenience Microchip includes identical files in two formats (.pdf and .xls).

Description of Change:

Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology. This PCN is to inform you that qualification of the CSI05 process technology has completed and to provide the report for your review. Although we are providing you with the qualification data, if needed products in this process technology will not ship from Fabrication site (FAB 5) until after the final PCN has been issued.

Please review the FAQ attached on this notification for additional information about this change.

Pre Change:

Fabricated at Micrel fabrication site (San Jose, CA, USA) (SJ) using 6 inch wafers.

Post Change:

Fabricated at Atmel Fabrication site FAB 5 (Colorado Springs, CO, USA) (COS) using 6 inch wafers

Note: Microchip previously announced that the qualification of this process technology (CSI05) will be qualified at Microchip Fabrication Sites using 8 inch wafers. That qualification will proceed and will be communicated when completed as indicated in PCN [CYER-31JLEX869](#). The Microchip Fabrication sites locations using 8 inch wafers will become the primary location and the only site that will ship products in this process technology (CSI05) while the Colorado Springs location will be a backup fab site, which can be used if there is some sort of critical issue.

Pre and Post Change Summary:

	Pre Change	Post Change	
Fabrication Location	Micrel Fabrication Site (San Jose, CA, USA)	Primary Fab Location: Microchip Fabrication Sites (Tempe, AZ and Gresham, OR, USA)	Backup Fab Location: Atmel Fabrication site FAB 5 (Colorado Springs, CO USA)
Wafer Diameter	6 inches (150 mm)	8 inches (200 mm)	6 inches (150 mm)
Quality certification	ISO9001	ISO/TS16949	ISO9001/TS16949
Data sheet / specifications	No Change	No Change	No Change
Design/layout	No Change	No Change	No Change
Die Size	No change	No change	No change
Final test program	No change	No change	No change
Package Type/MSL	No Change	No Change	No Change

Impacts to Data Sheet:

No impact anticipated.

Change Impact:

None

Reason for Change:

To improve productivity with the closure of the Micrel fab (SJ) as part of the integration of Micrel and Microchip.

Change Implementation Status:

In Progress

Estimated First Ship Date:

Catalog part numbers fabricated at FAB 5 will not ship until after the final PCN has been issued with the listed CPN(s) attached. Microchip will issue Final PCNs as mask sets are released to production at FAB 5.

NOTE: This FAB transition will vary by catalog part number (CPN) and may take several months/years to complete the transition that may result in several final PCNs.

Summary Time Table of notable events to date:

	February 2017				->	May 2017				May 2017 onwards
	05	06	07	08		18	19	20	21	
Workweek										
Initial PCN Issue Date		X								
Qualification Report Availability						X				

and Intermediate PCN issue date										
Final PCN Issue Date										Will be issued as catalog part numbers (CPNs) are released to production

Method to Identify Change:

Traceability code.

Qualification Report:

Please open the attachments included with this PCN labeled as PCN_#_Qual Report.

Revision History:

February 8, 2017: Issued initial notification.

February 22, 2017: Re-issued initial notification to update the Pre and Post Change summary table.

May 4, 2017: Issued intermediate notification. Attached the Qualification Report. Updated the note under the post change to add that the Microchip Fabrication sites will become the primary location while the Colorado Springs location will be the backup.

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

Attachment(s):

- [Frequently Asked Questions_Atmel FAB Transfer_CSI05.pdf](#)
- [PCN_JAON-31GTPQ691_Qual Report.pdf](#)

[PCN_JAON-31GTPQ691_Affected_CPN.pdf](#)

[PCN_JAON-31GTPQ691_Affected_CPN.xls](#)

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

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MICROCHIP

QUALIFICATION REPORT SUMMARY

PCN #: JAON-31GTPQ691

Date

April 6, 2017

Qualification of Fabrication site (FAB 5) for Micrel products manufactured with the BCD05 process technology. The CSI05 process technology will qualify by similarity (QBS).

PART NUMBER	PACKAGE TYPE	ASSEMBLY LOCATION	FAB LOCATION	PROCESS NAME
MIC2104YML	QFN33-16L	UNISEM, MALAYSIA	MICROCHIP FAB-5 Colorado Springs	BCD05/CSI05

DIE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	168 HR Rej/ss	500 HR Rej/ss	1000 HR Rej/ss	COMMENTS
HTOL High Temperature Operating Life Test	JESD22, Method 108	1643	R6X0362 UNIS173100082.000	0/82	0/82	0/82	*Units went straight to 1000 hours. No read out at 500 hours.
	Ta = +125°C	1702	6Y2663 UNIS174200177.100B	0/80	-*	0/80	
	Vcc = +75V	1703	6Y0748 UNIS174300027.000	0/79	-*	0/78**	

*Lot 2 under 500HR went straight to 1000 HR skipping the 500 HR read.

** Lot 3 started with 79 units, one device removed at 168 hours, 78 units went straight to straight to 1000 hours

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	168 HR Rej/ss	408 HR Rej/ss	COMMENTS
HTOL High Temperature Operating Life Test	JESD22, Method 108	1702	R6X0362 UNIS173100082.000	0/77	0/77	*77 units went straight to 408 hours. No read out at 168 hours.
	Ta = +150°C	1703	B6Y0748 UNIS174300027.000	-*	0/77	

ELECTROSTATIC DISCHARGE

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
ESD-HBM Human Body Model ATE Test @ Room +25C	R= 1500 Ohms C= 100 pF 1X +/- Voltage	1643	R6X0362 UNIS173100082.000	+/-1000V	0/3	Note: ESD ratings are, device specific. All products, qualified on the 6" Micrel, process technologies at, Microchip Fabs will have the, same or better ESD and, Latch-up performance as the 6" products fabricated at San Jose wafer fabrication site.
ESD-CDM Charged Device Model ATE Test @ Room +25C	JESD22-C101 1X +/- Voltage	1643	R6X0362 UNIS173100082.000	+/-1500V	0/3	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
LATCH-UP	JESD-78 A = +25°C	1643	R6X0362 UNIS173100082.000	I/O LU O/V LU	0/6 0/6	Same as SJ 6 inch

PACKAGE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	Rej/ss	COMMENTS
Level 1 Pre-conditioning Flow Use samples to perform UHAST/BHAST/TCY	JESD22-A113	1643	R6X0362 UNIS173100082.000	0/375	
		1702	6Y2663 UNIS174200177.100	0/272	
		1703	B6Y0748 UNIS174300027.000	0/431	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
UHAST With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	Ta= +131°C/85%RH JESD22-A118 (UNBIASED)	1643	R6X0362 UNIS173100082.000	0/82	
		1702	6Y2663 UNIS174200177.100	0/82	
		1703	B6Y0748 UNIS174300027.000	0/82	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
BHAST With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A110 (BIASED) Ta= +130°C/85%RH Vcc = +75V	1643	R6X0362 UNIS173100082.000	0/82	
		1702	6Y2663 UNIS174200177.100	0/82	
		1703	B6Y0748 UNIS174300027.000	0/82	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	500 CY Rej/ss	COMMENTS
TEMP CYCLE With Level 1 Pre-conditioning Tpeak + 260°C 3X Reflow	JESD22-A104 Ta = -65°C / +150°C	1643	R6X0362 UNIS173100082.000	0/82	
		1702	6Y2663 UNIS174200177.100	0/82	
		1703	B6Y0748 UNIS174300027.000	0/82	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	500 HR Rej/ss	COMMENTS
HTSL High Temperature Storage Life	JESD22-A103 Ta = +175°C	1643	R6X0362 UNIS173100082.000	0/50	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	1000 HR Rej/ss	COMMENTS
HTSL High Temperature Storage Life	JESD22-A103 Ta = +150°C	1643	R6X0362 UNIS173100082.000	0/50	
FLAMMABILITY	UL-94V-0 Certified	All mold compounds used by Micrel meet this standard. See the UL website on-line list of material flammability certifications. Micrel requires a Certificate of Compliance from the assembly house and we verify the certifications on the web.			

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC1810-10UY-TR
MIC1810-15UY-TR
MIC1810-5UY-TR
MIC1815-10UY-TR
MIC1815-20UY-TR
MIC2003-0.5YM5-TR
MIC2003-0.5YML-TR
MIC2003-0.8YM5-TR
MIC2003-0.8YML-TR
MIC2003-1.2YM5-TR
MIC2003-1.2YML-TR
MIC2004-0.5YM5-TR
MIC2004-0.5YML-TR
MIC2004-0.8YM5-TR
MIC2004-0.8YML-TR
MIC2004-1.2YM5-TR
MIC2004-1.2YML-TR
MIC2005-0.5LYM5-TR
MIC2005-0.5YM6-TR
MIC2005-0.5YML-TR
MIC2005-0.8LYM5-TR
MIC2005-0.8YM6-TR
MIC2005-0.8YML-TR
MIC2005-1.2LYM5-TR
MIC2005-1.2YM6-TR
MIC2005-1.2YML-TR
MIC2005A-1YM5-TR
MIC2005A-1YM6-TR
MIC2005A-2YM5-TR
MIC2005A-2YM6-TR
MIC2005M-0.5YM6-TR
MIC2007YM6-TR
MIC2007YML-TR
MIC2008YM6-TR
MIC2008YML-TR
MIC2009A-1YM6-TR
MIC2009A-2YM6-TR
MIC2009YM6-TR
MIC2009YML-TR
MIC2013-0.5YM5-TR
MIC2013-0.5YML-TR
MIC2013-0.8YM5-TR
MIC2013-0.8YML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC2013-1.2YM5-TR
MIC2013-1.2YML-TR
MIC2014-0.5YM5-TR
MIC2014-0.5YML-TR
MIC2014-0.8YM5-TR
MIC2014-0.8YML-TR
MIC2014-1.2YM5-TR
MIC2014-1.2YML-TR
MIC2015-0.5YM6-TR
MIC2015-0.5YML-TR
MIC2015-0.8YM6-TR
MIC2015-0.8YML-TR
MIC2015-1.2YM6-TR
MIC2015-1.2YML-TR
MIC2016-0.5YML-TR
MIC2017YM6-TR
MIC2017YML-TR
MIC2018YM6-TR
MIC2018YML-TR
MIC2019A-1YM6-TR
MIC2019A-2YM6-TR
MIC2019YM6-TR
MIC2019YML-TR
MIC2090-1YM5-TR
MIC2090-2YM5-TR
MIC2091-1YM5-TR
MIC2091-2YM5-TR
MIC2095-1YMT-TR
MIC2095-2YMT-TR
MIC2097-1YMT-TR
MIC2097-2YMT-TR
MIC2098-1YMT-TR
MIC2098-2YMT-TR
MIC2099-1YMT-TR
MIC2099-2YMT-TR
MIC2205-1.38YML-TR
MIC2205-1.3YML-TR
MIC2205-1.58YML-TR
MIC2205-1.5YML-TR
MIC2205-1.85YML-TR
MIC2205-1.8YML-TR
MIC2205YML-TR
MIC2206-1.2YML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC2206-1.8YML-TR
MIC2206-83YML-TR
MIC2206-91YML-TR
MIC2207YML-TR
MIC2208YML-TR
MIC22200YML-TR
MIC22205YML-TR
MIC2224YML-TR
MIC2225-4KYMT-TR
MIC2225-4MYMT-TR
MIC2225-4OYMT-TR
MIC2225-4SYMT-TR
MIC2225-G4YMT-TR
MIC2225-GFYMT-TR
MIC2225-GJYMT-TR
MIC2225-GMYMT-TR
MIC22400YML-TR
MIC22400YTSE
MIC22400YTSE-TR
MIC22405YML-TR
MIC2245YML-TR
MIC22600YML-TR
MIC22600YTSE
MIC22600YTSE-TR
MIC22601YML-TR
MIC22602YML-TR
MIC22700YML-TR
MIC22705YML-TR
MIC2285AYMT-TR
MIC2285YML-TR
MIC22950YML-TR
MIC23030-4YMT-TR
MIC23030-AYMT-TR
MIC23030-CYMT-TR
MIC23030-FYMT-TR
MIC23030-GYMT-TR
MIC23031-4YMT-TR
MIC23031-AYMT-TR
MIC23031-CYMT-TR
MIC23031-FYMT-TR
MIC23031-GYMT-TR
MIC23050-4YML-TR
MIC23050-CYML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC23050-GYML-TR
MIC23050-SYML-TR
MIC23051-16YML-TR
MIC23051-945YML-TR
MIC23051-C4YML-TR
MIC23051-CGYML-TR
MIC23060-G4YMT-TR
MIC23150-4YMT-TR
MIC23150-55YMT-TR
MIC23150-CYMT-TR
MIC23150-GYMT-TR
MIC23150-SYMT-TR
MIC23153-GYMT-TR
MIC23153YMT-TR
MIC23155-GYMT-TR
MIC23155YMT-TR
MIC23156-0YCS-TR
MIC23156-0YML-T5
MIC23156-0YML-TR
MIC23156-2YCS-TR
MIC23156-2YML-T5
MIC23156-2YML-TR
MIC23158YML-T5
MIC23158YML-TR
MIC23159YML-T5
MIC23159YML-TR
MIC23201YML-T5
MIC23201YML-TR
MIC23250-AAYMT-TR
MIC23250-F4YMT-TR
MIC23250-G4YMT-TR
MIC23250-M4YMT-TR
MIC23250-S4YMT-TR
MIC23250-SKYMT-TR
MIC23250-W4YMT-TR
MIC23254-GCYMT-TR
MIC23303YML-T5
MIC23303YML-TR
MIC23450-AAAYML-T5
MIC23450-AAAYML-TR
MIC23451-AAAYFL-T5
MIC23451-AAAYFL-TR
MIC23603YML-T5

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC23603YML-TR
MIC2550AYML25-TR
MIC2550AYML-TR
MIC2550AYTS
MIC2550AYTS-TR
MIC2550YML-TR
MIC2550YTS
MIC2550YTS-TR
MIC2551AYML25-TR
MIC2551AYML-TR
MIC2551AYTS
MIC2551AYTS-TR
MIC2551YML-TR
MIC2551YTS
MIC2551YTS-TR
MIC2555-0YML-TR
MIC2555-1YML-TR
MIC2569YQS
MIC2569YQS-TR
MIC2772-L2L3YML-TR
MIC2772-L3L3YML-TR
MIC2772-L3T3YML-TR
MIC2772-M2M3YML-TR
MIC2772-M3M3YML-TR
MIC2772-M3S3YML-TR
MIC2772-S2S3YML-TR
MIC2772-S3S3YML-TR
MIC2772-T2T3YML-TR
MIC2772-T3T3YML-TR
MIC2800-A4SYML-TR
MIC2800-D24MYML-TR
MIC2800-D2FMYML-TR
MIC2800-G4JYML-TR
MIC2800-G4KYML-TR
MIC2800-G4MYML-TR
MIC2800-G4SYML-TR
MIC2800-G7SYML-TR
MIC2800-GFMYML-TR
MIC2800-GFSYML-TR
MIC2807-JJYML-TR
MIC2807-MMYML-TR
MIC2807-NNYML-TR
MIC2807-OOYML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC2808-NNYFT-TR
MIC2810-1JGMYML-TR
MIC2810-44MYML-TR
MIC2810-4GKYML-TR
MIC2810-4GMYML-TR
MIC2810-4GPYML-TR
MIC2810-4GSYML-TR
MIC2810-4LSYML-TR
MIC2810-4MSYML-TR
MIC2810-CGJYML-TR
MIC2810-FGSYML-TR
MIC2811-4GJLYML-TR
MIC2811-4GMSYML-TR
MIC2821-4GJLYML-TR
MIC2821-4GMSYML-TR
MIC2826-A0YMT-TR
MIC2826-D9YMT-TR
MIC2827-B2YMT-TR
MIC2827-E1YMT-TR
MIC2841AYMT-TR
MIC2842AYMT-TR
MIC2843AYMT-TR
MIC2843YMT-TR
MIC2844AYMT-TR
MIC2845A-MFYMT-TR
MIC2845A-MGYMT-TR
MIC2845A-PGYMT-TR
MIC2845A-PPYMT-TR
MIC2845A-SCYMT-TR
MIC2846A-MFYMT-TR
MIC2846A-MGYMT-TR
MIC2846A-PGYMT-TR
MIC2846A-PPYMT-TR
MIC2846A-SCYMT-TR
MIC2860-2DYC6-TR
MIC2860-2DYD6-TR
MIC2860-2PYC6-TR
MIC2860-2PYD6-TR
MIC33030-4YHJ-TR
MIC33030-AYHJ-TR
MIC33030-GYHJ-T5
MIC33030-GYHJ-TR
MIC33030-JYHJ-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC33050-4YHL-TR
MIC33050-AYHL-T5
MIC33050-AYHL-TR
MIC33050-CYHL-TR
MIC33050-GYHL-TR
MIC33050-SYHL-TR
MIC33153-4YHJ-TR
MIC33153YHJ-TR
MIC3385-1.5YHL-TR
MIC3385YHL-TR
MIC4555YML-TR
MIC47050-1.2YML-TR
MIC47050-1.8YML-TR
MIC47050YML-TR
MIC47050YMT-TR
MIC47053YMT-T5
MIC47053YMT-TR
MIC47100-0.8YML-TR
MIC47100-08YMME
MIC47100-08YMME-TR
MIC47100-1.0YML-TR
MIC47100-1.2YML-TR
MIC47100-10YMME
MIC47100-10YMME-TR
MIC47100-12YMME
MIC47100-12YMME-TR
MIC47100YML-TR
MIC47100YMME
MIC47100YMME-TR
MIC4720YML-TR
MIC4720YMME
MIC4720YMME-TR
MIC4721YMM
MIC4721YMM-TR
MIC4722YML-TR
MIC4723YML-TR
MIC4723YMME
MIC4723YMME-TR
MIC4724YMME
MIC4724YMME-TR
MIC4742YML-TR
MIC4742YTSE
MIC4742YTSE-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC4744YML-TR
MIC4744YTSE
MIC4744YTSE-TR
MIC4782YML-TR
MIC4801YM
MIC4801YM-TR
MIC4802YME
MIC4802YME-TR
MIC4811YMM
MIC4811YMM-TR
MIC4812YMME
MIC4812YMME-TR
MIC5166YML-TR
MIC5167YML-TR
MIC5301-1.3YD5-TR
MIC5301-1.3YMT-TR
MIC5301-1.5YD5-TR
MIC5301-1.5YD5-TX
MIC5301-1.5YMT-TR
MIC5301-1.8YD5-TR
MIC5301-1.8YD5-TX
MIC5301-1.8YMT-TR
MIC5301-2.1YD5-TR
MIC5301-2.1YD5-TX
MIC5301-2.1YMT-TR
MIC5301-2.5YD5-TR
MIC5301-2.5YMT-TR
MIC5301-2.6YD5-TR
MIC5301-2.6YMT-TR
MIC5301-2.85YD5-TR
MIC5301-2.85YD5-TX
MIC5301-2.85YML-TR
MIC5301-2.85YMT-TR
MIC5301-2.8YD5-TR
MIC5301-2.8YD5-TX
MIC5301-2.8YMT-TR
MIC5301-2.9YD5-TR
MIC5301-2.9YD5-TX
MIC5301-2.9YMT-TR
MIC5301-3.0YD5-TR
MIC5301-3.0YD5-TX
MIC5301-3.0YMT-TR
MIC5301-3.3YD5-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5301-3.3YD5-TX
MIC5301-3.3YMT-TR
MIC5301-4.6YD5-TR
MIC5301-4.6YD5-TX
MIC5301-4.6YMT-TR
MIC5301YD5-TR
MIC5301YD5-TX
MIC5301YML-TR
MIC5301YMT-TR
MIC5302-1.3YMT-TR
MIC5302-1.5YMT-TR
MIC5302-1.8YMT-TR
MIC5302-2.1YMT-TR
MIC5302-2.5YMT-TR
MIC5302-2.6YMT-TR
MIC5302-2.85YMT-TR
MIC5302-2.8YMT-TR
MIC5302-2.9YMT-TR
MIC5302-3.0YMT-TR
MIC5302-3.3YMT-TR
MIC5302-4.6YMT-TR
MIC5303-1.3YMT-TR
MIC5303-1.5YMT-TR
MIC5303-1.8YMT-TR
MIC5303-2.1YMT-TR
MIC5303-2.5YMT-TR
MIC5303-2.6YMT-TR
MIC5303-2.85YMT-TR
MIC5303-2.8YMT-TR
MIC5303-2.9YMT-TR
MIC5303-3.0YMT-TR
MIC5303-3.3YMT-TR
MIC5303-4.6YMT-TR
MIC5304-RGYMT-TR
MIC5304-XDYMT-TR
MIC5304-XGHYMT-TR
MIC5305-1.5YD5-TR
MIC5305-1.5YD5-TX
MIC5305-1.5YML-TR
MIC5305-1.8YD5-TR
MIC5305-1.8YD5-TX
MIC5305-1.8YML-TR
MIC5305-2.0YML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5305-2.5YD5-TR
MIC5305-2.5YD5-TX
MIC5305-2.5YML-TR
MIC5305-2.6YD5-TR
MIC5305-2.6YD5-TX
MIC5305-2.6YML-TR
MIC5305-2.7YD5-TR
MIC5305-2.7YD5-TX
MIC5305-2.7YML-TR
MIC5305-2.85YD5-TR
MIC5305-2.85YD5-TX
MIC5305-2.85YML-TR
MIC5305-2.8YD5-TR
MIC5305-2.8YD5-TX
MIC5305-2.8YML-TR
MIC5305-2.8YMT-TR
MIC5305-2.9YD5-TR
MIC5305-2.9YD5-TX
MIC5305-2.9YML-TR
MIC5305-3.0YD5-TR
MIC5305-3.0YD5-TX
MIC5305-3.0YML-TR
MIC5305-3.3YD5-TR
MIC5305-3.3YD5-TX
MIC5305-3.3YML-TR
MIC5305-4.6YML-TR
MIC5305-4.6YMT-TR
MIC5305-4.75YD5-TR
MIC5305-4.75YD5-TX
MIC5305-4.75YML-TR
MIC5305YML-TR
MIC5306-1.5YD5-TR
MIC5306-1.8YD5-TR
MIC5306-1.8YD5-TX
MIC5306-2.5YD5-TR
MIC5306-2.5YD5-TX
MIC5306-2.6YD5-TR
MIC5306-2.8YD5-TR
MIC5306-3.0YD5-TR
MIC5306-3.0YD5-TX
MIC5306-3.1YD5-TR
MIC5307-1.5YD5-TR
MIC5307-1.5YD5-TX

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5307-1.8YD5-TR
MIC5307-1.8YD5-TX
MIC5307-2.8YD5-TR
MIC5307-2.8YD5-TX
MIC5307-3.0YD5-TR
MIC5307-3.0YD5-TX
MIC5308-1.2YD6-TR
MIC5308-1.2YMT-TR
MIC5308-1.5YD6-TR
MIC5308-1.5YMT-TR
MIC5308-1.8YD6-TR
MIC5308-1.8YMT-TR
MIC5308YD6-TR
MIC5308YMT-TR
MIC5309-1.2YD6-TR
MIC5309-1.2YMT-TR
MIC5309-1.5YD6-TR
MIC5309-1.5YMT-TR
MIC5309-1.8YD6-TR
MIC5309-1.8YMT-TR
MIC5309YD6-TR
MIC5309YMT-TR
MIC5310-GFYML-TR
MIC5310-GGYML-TR
MIC5310-GWYML-TR
MIC5310-JGYML-TR
MIC5310-JJYML-TR
MIC5310-KDYML-TR
MIC5310-KGYML-TR
MIC5310-LLYML-TR
MIC5310-MFYML-TR
MIC5310-MGYML-TR
MIC5310-MGYMT-TR
MIC5310-MKYML-TR
MIC5310-MMYML-TR
MIC5310-NDYML-TR
MIC5310-NKYML-TR
MIC5310-NNYML-TR
MIC5310-OFYML-TR
MIC5310-OGYML-TR
MIC5310-OOYML-TR
MIC5310-PGYML-TR
MIC5310-PJYML-TR

JAON-31GTPQ691 - CCB 2837 Intermediate Notice: Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5310-PKYML-TR
MIC5310-PMYML-TR
MIC5310-PNYML-TR
MIC5310-PPYML-TR
MIC5310-SFYML-TR
MIC5310-SGYML-TR
MIC5310-SJYML-TR
MIC5310-SKYML-TR
MIC5310-SMYML-TR
MIC5310-SNYML-TR
MIC5310-SOYML-TR
MIC5310-SPYML-TR
MIC5310-SRYML-TR
MIC5310-SSYML-TR
MIC5311-DKYML-TR
MIC5311-GMYML-TR
MIC5311-NLYML-TR
MIC5311-NNYML-TR
MIC5312-DKYML-TR
MIC5312-GMYML-TR
MIC5312-GPYML-TR
MIC5312-MMYML-TR
MIC5312-NNYML-TR
MIC5313-F3YMT-TR
MIC5313-F4YMT-TR
MIC5313-F5YMT-TR
MIC5313-F6YMT-TR
MIC5313-FCYMT-TR
MIC5313-FFYMT-TR
MIC5313-G4YMT-TR
MIC5313-GGYMT-TR
MIC5314-F3YMT-TR
MIC5314-F4YMT-TR
MIC5314-F5YMT-TR
MIC5314-F6YMT-TR
MIC5314-FCYMT-TR
MIC5314-FFYMT-TR
MIC5314-G4YMT-TR
MIC5314-GGYMT-TR
MIC5315-F4CYMT-TR
MIC5315-F5CYMT-TR
MIC5315-GGCYMT-TR
MIC5315-GW3YMT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5316-F4CYMT-TR
MIC5316-F5CYMT-TR
MIC5316-GGCYMT-TR
MIC5316-GW3YMT-TR
MIC5317-1.0YD5-T5
MIC5317-1.0YD5-TR
MIC5317-1.0YM5-T5
MIC5317-1.0YM5-TR
MIC5317-1.0YMT-T5
MIC5317-1.0YMT-TR
MIC5317-1.0YMT-TZ
MIC5317-1.2YD5-T5
MIC5317-1.2YD5-TR
MIC5317-1.2YM5-T5
MIC5317-1.2YM5-TR
MIC5317-1.2YMT-T5
MIC5317-1.2YMT-TR
MIC5317-1.2YMT-TZ
MIC5317-1.5YD5-T5
MIC5317-1.5YD5-TR
MIC5317-1.5YM5-T5
MIC5317-1.5YM5-TR
MIC5317-1.5YMT-T5
MIC5317-1.5YMT-TR
MIC5317-1.5YMT-TZ
MIC5317-1.8YD5-T5
MIC5317-1.8YD5-TR
MIC5317-1.8YM5-T5
MIC5317-1.8YM5-TR
MIC5317-1.8YMT-T5
MIC5317-1.8YMT-TR
MIC5317-1.8YMT-TZ
MIC5317-2.5YD5-T5
MIC5317-2.5YD5-TR
MIC5317-2.5YM5-T5
MIC5317-2.5YM5-TR
MIC5317-2.5YMT-T5
MIC5317-2.5YMT-TR
MIC5317-2.5YMT-TZ
MIC5317-2.8YD5-T5
MIC5317-2.8YD5-TR
MIC5317-2.8YM5-T5
MIC5317-2.8YM5-TR

JAON-31GTPQ691 - CCB 2837 Intermediate Notice: Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5317-2.8YMT-T5
MIC5317-2.8YMT-TR
MIC5317-2.8YMT-TZ
MIC5317-3.0YD5-T5
MIC5317-3.0YD5-TR
MIC5317-3.0YM5-T5
MIC5317-3.0YM5-TR
MIC5317-3.0YMT-T5
MIC5317-3.0YMT-TR
MIC5317-3.0YMT-TZ
MIC5317-3.3YD5-T5
MIC5317-3.3YD5-TR
MIC5317-3.3YM5-T5
MIC5317-3.3YM5-TR
MIC5317-3.3YMT-T5
MIC5317-3.3YMT-TR
MIC5317-3.3YMT-TZ
MIC5318-1.3YD5-TR
MIC5318-1.3YMT-TR
MIC5318-1.5YD5-TR
MIC5318-1.5YD5-TX
MIC5318-1.5YMT-TR
MIC5318-1.8YD5-TR
MIC5318-1.8YD5-TX
MIC5318-1.8YMT-TR
MIC5318-2.1YD5-TR
MIC5318-2.1YMT-TR
MIC5318-2.5YD5-TR
MIC5318-2.5YD5-TX
MIC5318-2.5YMT-TR
MIC5318-2.6YD5-TR
MIC5318-2.6YMT-TR
MIC5318-2.85YD5-TR
MIC5318-2.85YD5-TX
MIC5318-2.8YD5-TR
MIC5318-2.8YD5-TX
MIC5318-2.8YMT-TR
MIC5318-2.9YD5-TR
MIC5318-2.9YMT-TR
MIC5318-3.0YD5-TR
MIC5318-3.0YD5-TX
MIC5318-3.0YMT-TR
MIC5318-3.3YD5-TR

JAON-31GTPQ691 - CCB 2837 Intermediate Notice: Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5318-3.3YD5-TX
MIC5318-3.3YMT-TR
MIC5318-4.6YD5-TR
MIC5318-4.6YMT-TR
MIC5318YD5-TR
MIC5318YD5-TX
MIC5318YMT-TR
MIC5319-1.3HYD5-TR
MIC5319-1.3HYML-TR
MIC5319-1.85YD5-TR
MIC5319-1.85YD5-TX
MIC5319-1.85YML-TR
MIC5319-1.8YD5-TR
MIC5319-1.8YD5-TX
MIC5319-1.8YML-TR
MIC5319-2.5YD5-TR
MIC5319-2.5YD5-TX
MIC5319-2.5YML-TR
MIC5319-2.6YD5-TR
MIC5319-2.6YD5-TX
MIC5319-2.6YML-TR
MIC5319-2.7YD5-TR
MIC5319-2.7YML-TR
MIC5319-2.85YML-TR
MIC5319-2.8YD5-TR
MIC5319-2.8YML-TR
MIC5319-2.9YML-TR
MIC5319-3.0YD5-TR
MIC5319-3.0YML-TR
MIC5319-3.3YD5-TR
MIC5319-3.3YML-TR
MIC5319-5.0YD5-TR
MIC5319-5.0YML-TR
MIC5319YML-TR
MIC5320-46MYMT-TR
MIC5320-GFYD6-TR
MIC5320-GFYD6-TX
MIC5320-GFYMT-TR
MIC5320-GGYD6-TR
MIC5320-GGYMT-TR
MIC5320-GWYMT-TR
MIC5320-H4FYD6-TR
MIC5320-H4FYD6-TX

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5320-H4FYMT-TR
MIC5320-JGYD6-TR
MIC5320-JGYD6-TX
MIC5320-JGYML-TR
MIC5320-JGYMT-TR
MIC5320-JJYD6-TR
MIC5320-JJYML-TR
MIC5320-JJYMT-TR
MIC5320-KDYMT-TR
MIC5320-KGYD6-TR
MIC5320-KGYD6-TX
MIC5320-KGYML-TR
MIC5320-KGYMT-TR
MIC5320-LLYD6-TR
MIC5320-LLYD6-TX
MIC5320-LLYML-TR
MIC5320-LLYMT-TR
MIC5320-MFYD6-TR
MIC5320-MFYD6-TX
MIC5320-MFYML-TR
MIC5320-MFYMT-TR
MIC5320-MGYD6-TR
MIC5320-MGYD6-TX
MIC5320-MGYML-TR
MIC5320-MGYMT-TR
MIC5320-MKYD6-TR
MIC5320-MKYMT-TR
MIC5320-MMYD6-TR
MIC5320-MMYD6-TX
MIC5320-MMYML-TR
MIC5320-MMYMT-TR
MIC5320-NDYMT-TR
MIC5320-NKYMT-TR
MIC5320-NNYD6-TR
MIC5320-NNYD6-TX
MIC5320-NNYMT-TR
MIC5320-OFYMT-TR
MIC5320-OGYMT-TR
MIC5320-OOYMT-TR
MIC5320-PGYD6-TR
MIC5320-PGYD6-TX
MIC5320-PGYMT-TR
MIC5320-PJYML-TR

JAON-31GTPQ691 - CCB 2837 Intermediate Notice: Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5320-PJYMT-TR
MIC5320-PKYD6-TR
MIC5320-PKYD6-TX
MIC5320-PKYML-TR
MIC5320-PKYMT-TR
MIC5320-PMYMT-TR
MIC5320-PNYMT-TR
MIC5320-PPYD6-TR
MIC5320-PPYD6-TX
MIC5320-PPYML-TR
MIC5320-PPYMT-TR
MIC5320-SFYMT-TR
MIC5320-SGYD6-TR
MIC5320-SGYD6-TX
MIC5320-SGYML-TR
MIC5320-SGYMT-TR
MIC5320-SJYD6-TR
MIC5320-SJYD6-TX
MIC5320-SJYML-TR
MIC5320-SJYMT-TR
MIC5320-SKYMT-TR
MIC5320-SMYML-TR
MIC5320-SMYMT-TR
MIC5320-SNYMT-TR
MIC5320-SOYMT-TR
MIC5320-SPYD6-TR
MIC5320-SPYD6-TX
MIC5320-SPYMT-TR
MIC5320-SRYMT-TR
MIC5320-SSYD6-TR
MIC5320-SSYD6-TX
MIC5320-SSYMT-TR
MIC5321-46MYD6-TR
MIC5321-46MYMT-TR
MIC5321-GFYD6-TR
MIC5321-GFYD6-TX
MIC5321-GFYMT-TR
MIC5321-GGYD6-TR
MIC5321-GGYMT-TR
MIC5321-GWYMT-TR
MIC5321-JGYMT-TR
MIC5321-JJYMT-TR
MIC5321-KDYMT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5321-KGYMT-TR
MIC5321-LLYD6-TR
MIC5321-LLYML-TR
MIC5321-LLYMT-TR
MIC5321-MFYD6-TR
MIC5321-MFYD6-TX
MIC5321-MFYML-TR
MIC5321-MFYMT-TR
MIC5321-MGYD6-TR
MIC5321-MGYD6-TX
MIC5321-MGYML-TR
MIC5321-MGYMT-TR
MIC5321-MKYD6-TR
MIC5321-MKYMT-TR
MIC5321-MMYD6-TR
MIC5321-MMYD6-TX
MIC5321-MMYML-TR
MIC5321-MMYMT-TR
MIC5321-NDYMT-TR
MIC5321-NKYMT-TR
MIC5321-NNYMT-TR
MIC5321-OFYMT-TR
MIC5321-OGYMT-TR
MIC5321-OOYMT-TR
MIC5321-PGYD6-TR
MIC5321-PGYD6-TX
MIC5321-PGYMT-TR
MIC5321-PJYMT-TR
MIC5321-PKYMT-TR
MIC5321-PMYMT-TR
MIC5321-PNYMT-TR
MIC5321-PPYD6-TR
MIC5321-PPYD6-TX
MIC5321-PPYML-TR
MIC5321-PPYMT-TR
MIC5321-SFYMT-TR
MIC5321-SGYMT-TR
MIC5321-SJYD6-TR
MIC5321-SJYD6-TX
MIC5321-SJYML-TR
MIC5321-SJYMT-TR
MIC5321-SKYMT-TR
MIC5321-SLYD6-TR

JAON-31GTPQ691 - CCB 2837 Intermediate Notice: Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5321-SLYMT-TR
MIC5321-SMYMT-TR
MIC5321-SNYMT-TR
MIC5321-SOYMT-TR
MIC5321-SPYMT-TR
MIC5321-SRYMT-TR
MIC5321-SSYD6-TR
MIC5321-SSYD6-TX
MIC5321-SSYML-TR
MIC5321-SSYMT-TR
MIC5322-MFYMT-TR
MIC5322-MGYMT-TR
MIC5322-NNYMT-TR
MIC5322-PMYMT-TR
MIC5322-PNYMT-TR
MIC5322-PPYMT-TR
MIC5323-1.8YD5-TR
MIC5323-1.8YMT-TR
MIC5323-2.8YD5-TR
MIC5323-2.8YMT-TR
MIC5323-3.3YD5-TR
MIC5323-3.3YMT-TR
MIC5323YMT-TR
MIC5325-1.2YMT-TR
MIC5325-1.5YMT-TR
MIC5325-1.8YMT-TR
MIC5325-3.6YMT-TR
MIC5326-2.8YMT-TR
MIC5327-1.8YMT-TR
MIC5327-2.8YMT-TR
MIC5330-GFYML-TR
MIC5330-GGYML-TR
MIC5330-GWYML-TR
MIC5330-JGYML-TR
MIC5330-JJYML-TR
MIC5330-KDYML-TR
MIC5330-KGYML-TR
MIC5330-LLYML-TR
MIC5330-MFYML-TR
MIC5330-MGYML-TR
MIC5330-MKYML-TR
MIC5330-MMYML-TR
MIC5330-NDYML-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5330-NKYML-TR
MIC5330-NNYML-TR
MIC5330-OFYML-TR
MIC5330-OGYML-TR
MIC5330-OOYML-TR
MIC5330-PGYML-TR
MIC5330-PJYML-TR
MIC5330-PKYML-TR
MIC5330-PMYML-TR
MIC5330-PNYML-TR
MIC5330-PPYML-TR
MIC5330-SFYML-TR
MIC5330-SGYML-TR
MIC5330-SJYML-TR
MIC5330-SKYML-TR
MIC5330-SMYML-TR
MIC5330-SNYML-TR
MIC5330-SOYML-TR
MIC5330-SPYML-TR
MIC5330-SRYML-TR
MIC5330-SSYML-TR
MIC5331-G4YMT-TR
MIC5331-J4YMT-TR
MIC5331-MMYMT-TR
MIC5331-MNYMT-TR
MIC5331-NNYMT-TR
MIC5331-PMYMT-TR
MIC5331-PNYMT-TR
MIC5331-PPYMT-TR
MIC5332-G4YMT-TR
MIC5332-J4YMT-TR
MIC5332-MMYMT-TR
MIC5332-MNYMT-TR
MIC5332-NNYMT-TR
MIC5332-PMYMT-TR
MIC5332-PNYMT-TR
MIC5332-PPYMT-TR
MIC5332-SSYMT-T5
MIC5332-SSYMT-TR
MIC5333-G4YMT-TR
MIC5333-J4YMT-TR
MIC5333-MMYMT-TR
MIC5333-MNYMT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5333-NNYMT-TR
MIC5333-PMYMT-TR
MIC5333-PNYMT-TR
MIC5333-PPYMT-TR
MIC5335-GFYMT-TR
MIC5335-GGYMT-TR
MIC5335-GWYMT-TR
MIC5335-JGYMT-TR
MIC5335-JJYMT-TR
MIC5335-KDYMT-TR
MIC5335-KGYMT-TR
MIC5335-LLYMT-TR
MIC5335-MFYMT-TR
MIC5335-MGYMT-TR
MIC5335-MKYMT-TR
MIC5335-MMYMT-TR
MIC5335-NDYMT-TR
MIC5335-NKYMT-TR
MIC5335-NNYMT-TR
MIC5335-OFYMT-TR
MIC5335-OGYMT-TR
MIC5335-OOYMT-TR
MIC5335-PGYMT-TR
MIC5335-PJYMT-TR
MIC5335-PKYMT-TR
MIC5335-PMYMT-TR
MIC5335-PNYMT-TR
MIC5335-PPYMT-TR
MIC5335-SFYMT-TR
MIC5335-SGYMT-TR
MIC5335-SJYMT-TR
MIC5335-SKYMT-TR
MIC5335-SLYMT-TR
MIC5335-SMYMT-TR
MIC5335-SNYMT-TR
MIC5335-SOYMT-TR
MIC5335-SPYMT-TR
MIC5335-SRYMT-TR
MIC5335-SSYMT-TR
MIC5337-1.8YMT-TR
MIC5337-2.8YMT-TR
MIC5338-4CYMT-TR
MIC5338-G4YMT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5338-M4YMT-TR
MIC5338-MGYMT-TR
MIC5339-4CYMT-TR
MIC5339-G4YMT-TR
MIC5339-M4YMT-TR
MIC5339-SMYMT-TR
MIC5350-MGYMT-TR
MIC5350-MMYMT-TR
MIC5350-PGYMT-TR
MIC5350-SGYMT-TR
MIC5350-SMYMT-TR
MIC5353-1.8YMT-TR
MIC5353-2.5YMT-TR
MIC5353-2.6YMT-TR
MIC5353-2.8YMT-TR
MIC5353-3.0YMT-TR
MIC5353-3.3YMT-TR
MIC5353YMT-TR
MIC5355-G4YMME
MIC5355-G4YMME-TR
MIC5355-JGYMME
MIC5355-JGYMME-TR
MIC5355-S4YMME
MIC5355-S4YMME-TR
MIC5355-SCYMME
MIC5355-SCYMME-TR
MIC5355-SGYMME
MIC5355-SGYMME-TR
MIC5356-G4YMME
MIC5356-G4YMME-TR
MIC5356-JGYMME
MIC5356-JGYMME-TR
MIC5356-MGYML-T5
MIC5356-MGYML-TR
MIC5356-MMYML-T5
MIC5356-MMYML-TR
MIC5356-S4YMME
MIC5356-S4YMME-TR
MIC5356-SCYMME
MIC5356-SCYMME-TR
MIC5356-SGYMME
MIC5356-SGYMME-TR
MIC5357-GFYMME

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5357-GFYMME-TR
MIC5357-MGYMME
MIC5357-MGYMME-TR
MIC5357-SGYMME
MIC5357-SGYMME-TR
MIC5357-SMYMME
MIC5357-SMYMME-TR
MIC5361-1.0YMT-TZ
MIC5361-1.2YMT-TZ
MIC5361-1.3YMT-TZ
MIC5361-1.5YMT-TZ
MIC5361-1.8YMT-TZ
MIC5361-2.0YMT-TZ
MIC5361-2.5YMT-TZ
MIC5361-2.6YMT-TZ
MIC5361-2.7YMT-TZ
MIC5361-2.85YMT-TZ
MIC5361-2.8YMT-TZ
MIC5361-3.0YMT-TZ
MIC5361-3.1YMT-TZ
MIC5361-3.3YMT-TZ
MIC5362-1.0YMT-TZ
MIC5362-1.1YMT-TZ
MIC5362-1.2YMT-TZ
MIC5362-1.3YMT-TZ
MIC5362-1.5YMT-TZ
MIC5362-1.8YMT-TZ
MIC5362-2.0YMT-TZ
MIC5362-2.1YMT-T5
MIC5362-2.1YMT-TR
MIC5362-2.1YMT-TZ
MIC5362-2.5YMT-TZ
MIC5362-2.6YMT-TZ
MIC5362-2.7YMT-TZ
MIC5362-2.85YMT-TZ
MIC5362-2.8YMT-TZ
MIC5362-3.0YMT-TZ
MIC5362-3.1YMT-TZ
MIC5362-3.3YMT-TZ
MIC5363-1.2YMT-T5
MIC5363-1.2YMT-TR
MIC5363-2.8YMT-T5
MIC5363-2.8YMT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5363-3.3YMT-T5
MIC5363-3.3YMT-TR
MIC5364-1.2YMT-T5
MIC5364-1.2YMT-TR
MIC5364-2.8YMT-T5
MIC5364-2.8YMT-TR
MIC5364-3.3YMT-T5
MIC5364-3.3YMT-TR
MIC5365-1.0YC5-TR
MIC5365-1.0YMT-TZ
MIC5365-1.2YC5-TR
MIC5365-1.2YD5-T5
MIC5365-1.2YD5-TR
MIC5365-1.2YMT-TZ
MIC5365-1.3YC5-TR
MIC5365-1.5YC5-TR
MIC5365-1.5YMT-TZ
MIC5365-1.8YC5-TR
MIC5365-1.8YD5-T5
MIC5365-1.8YD5-TR
MIC5365-1.8YMT-TZ
MIC5365-2.0YC5-TR
MIC5365-2.0YMT-TZ
MIC5365-2.5YC5-TR
MIC5365-2.5YMT-TZ
MIC5365-2.6YC5-TR
MIC5365-2.6YMT-TZ
MIC5365-2.7YC5-TR
MIC5365-2.7YMT-TZ
MIC5365-2.85YC5-TR
MIC5365-2.85YD5-T5
MIC5365-2.85YD5-TR
MIC5365-2.85YMT-TZ
MIC5365-2.8YC5-TR
MIC5365-2.8YD5-T5
MIC5365-2.8YD5-TR
MIC5365-2.8YMT-TZ
MIC5365-2.9YC5-TR
MIC5365-2.9YMT-TZ
MIC5365-3.0YC5-TR
MIC5365-3.0YD5-T5
MIC5365-3.0YD5-TR
MIC5365-3.0YMT-TZ

JAON-31GTPQ691 - CCB 2837 Intermediate Notice: Qualification of Fabrication site (FAB 5) as a backup for Micrel products manufactured with the CSI05 process technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5365-3.3YC5-TR
MIC5365-3.3YD5-T5
MIC5365-3.3YD5-TR
MIC5365-3.3YMT-TZ
MIC5366-1.0YC5-TR
MIC5366-1.0YMT-TZ
MIC5366-1.2YC5-TR
MIC5366-1.2YMT-TZ
MIC5366-1.5YC5-TR
MIC5366-1.5YMT-TZ
MIC5366-1.8YC5-TR
MIC5366-1.8YMT-TZ
MIC5366-2.0YC5-TR
MIC5366-2.0YMT-TZ
MIC5366-2.1YMT-T5
MIC5366-2.1YMT-TZ
MIC5366-2.5YC5-TR
MIC5366-2.5YMT-TZ
MIC5366-2.6YC5-TR
MIC5366-2.6YMT-TZ
MIC5366-2.7YC5-TR
MIC5366-2.7YMT-TZ
MIC5366-2.85YC5-TR
MIC5366-2.85YMT-TZ
MIC5366-2.8YC5-TR
MIC5366-2.8YMT-TZ
MIC5366-2.9YC5-TR
MIC5366-2.9YMT-TZ
MIC5366-3.0YC5-TR
MIC5366-3.0YMT-TZ
MIC5366-3.1YMT-TR
MIC5366-3.1YMT-TZ
MIC5366-3.3YC5-TR
MIC5366-3.3YMT-TZ
MIC5367-1.2YMT-TR
MIC5367-1.5YMT-TR
MIC5367-3.3YMT-TR
MIC5368-1.2YMT-TR
MIC5368-1.5YMT-TR
MIC5368-3.3YMT-TR
MIC5370-4CYMT-TR
MIC5370-G4YMT-TR
MIC5370-GFYMT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5370-M4YMT-TR
MIC5370-MFYMT-TR
MIC5370-MGYMT-TR
MIC5370-MKYMT-TR
MIC5370-MMYMT-TR
MIC5370-PGYMT-TR
MIC5370-PKYMT-TR
MIC5370-PMYMT-TR
MIC5370-PPYMT-TR
MIC5370-SGYMT-TR
MIC5370-SKYMT-TR
MIC5370-SMYMT-TR
MIC5370-SPYMT-TR
MIC5370-SSYMT-TR
MIC5371-4CYMT-TR
MIC5371-G4YMT-TR
MIC5371-M4YMT-TR
MIC5371-MFYMT-TR
MIC5371-MGYMT-TR
MIC5371-MMYMT-TR
MIC5371-PMYMT-TR
MIC5371-PPYMT-TR
MIC5371-SGYMT-TR
MIC5371-SMYMT-TR
MIC5371-SPYMT-TR
MIC5371-SSYMT-TR
MIC5373-MG4YMT-TR
MIC5373-SJGYMT-TR
MIC5374-MG44YMT-TR
MIC5374-SJG1YMT-TR
MIC5375-2.8YC5-TR
MIC5375-2.8YMT-TZ
MIC5376-2.8YC5-TR
MIC5376-2.8YMT-TZ
MIC5377YC5-TR
MIC5377YMT-TR
MIC5378YC5-TR
MIC5378YMT-TR
MIC5380-G4YFT-TR
MIC5380-KHYFT-TR
MIC5380-LLYFT-TR
MIC5380-M4YFT-TR
MIC5380-MGYFT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC5380-NGYFT-TR
MIC5380-PPYFT-TR
MIC5380-SSYFT-TR
MIC5381-G4YFT-TR
MIC5381-M4YFT-TR
MIC5381-MGYFT-TR
MIC5381-PPYFT-TR
MIC5381-SSYFT-TR
MIC5383-MG4YMT-TR
MIC5383-SJGYMT-TR
MIC5384-MG44YMT-TR
MIC5384-SJG1YMT-TR
MIC5385-SGFYMT-TR
MIC5387-GMGYMT-TR
MIC5387-GMMYMT-TR
MIC5387-SG4YMT-TR
MIC5387-SGFYMT-TR
MIC5388-MGYCS-TR
MIC5389-MGYCS-TR
MIC6315-25D4UY-TR
MIC6315-26D2UY-TR
MIC6315-26D3UY-TR
MIC6315-26D4UY-TR
MIC6315-29D2UY-TR
MIC6315-29D3UY-TR
MIC6315-29D4UY-TR
MIC6315-30D2UY-TR
MIC6315-30D3UY-TR
MIC6315-30D4UY-TR
MIC6315-31D2UY-TR
MIC6315-31D3UY-TR
MIC6315-31D4UY-TR
MIC6315-40D2UY-TR
MIC6315-40D3UY-TR
MIC6315-40D4UY-TR
MIC6315-41D2UY-TR
MIC6315-41D3UY-TR
MIC6315-41D4UY-TR
MIC6315-42D3UY-TR
MIC6315-44D2UY-TR
MIC6315-44D3UY-TR
MIC6315-44D4UY-TR
MIC6315-46D2UY-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC6315-46D3UY-TR
MIC6315-46D4UY-TR
MIC803-26D2VC3-TR
MIC803-26D2VM3-TR
MIC803-26D3VC3-TR
MIC803-26D3VM3-TR
MIC803-26D4VC3-TR
MIC803-26D4VM3-TR
MIC803-29D2VC3-TR
MIC803-29D2VM3-TR
MIC803-29D3VC3-TR
MIC803-29D3VM3-TR
MIC803-29D4VC3-TR
MIC803-29D4VM3-TR
MIC803-30D2VC3-TR
MIC803-30D2VM3-TR
MIC803-30D3VC3-TR
MIC803-30D3VM3-TR
MIC803-30D4VC3-TR
MIC803-30D4VM3-TR
MIC803-31D2VC3-TR
MIC803-31D2VM3-TR
MIC803-31D3VC3-TR
MIC803-31D3VM3-TR
MIC803-31D4VC3-TR
MIC803-31D4VM3-TR
MIC803-40D2VC3-TR
MIC803-40D2VM3-TR
MIC803-40D3VC3-TR
MIC803-40D3VM3-TR
MIC803-40D4VC3-TR
MIC803-40D4VM3-TR
MIC803-41D2VC3-TR
MIC803-41D2VM3-TR
MIC803-41D3VC3-TR
MIC803-41D3VM3-TR
MIC803-41D4VC3-TR
MIC803-41D4VM3-TR
MIC803-44D2VC3-TR
MIC803-44D2VM3-TR
MIC803-44D3VC3-TR
MIC803-44D3VM3-TR
MIC803-44D4VC3-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC803-44D4VM3-TR
MIC803-46D2VC3-TR
MIC803-46D2VM3-TR
MIC803-46D3VC3-TR
MIC803-46D3VM3-TR
MIC803-46D4VC3-TR
MIC803-46D4VM3-TR
MIC809-5SUY-TR
MIC809-5SYC3-TR
MIC809JUY-TR
MIC809JYC3-TR
MIC809LUY-TR
MIC809LYC3-TR
MIC809MUY-TR
MIC809MYC3-TR
MIC809RUY-TR
MIC809RYC3-TR
MIC809SUY-TR
MIC809SYC3-TR
MIC809TUY-TR
MIC809TYC3-TR
MIC810JUY-TR
MIC810JYC3-TR
MIC810LUY-TR
MIC810LYC3-TR
MIC810MUY-TR
MIC810MYC3-TR
MIC810RUY-TR
MIC810RYC3-TR
MIC810SUY-TR
MIC810SYC3-TR
MIC810TUY-TR
MIC810TYC3-TR
MIC8114TUY-TR
MIC8115TUY-TR
MIC811JUY-TR
MIC811LUY-TR
MIC811MUY-TR
MIC811RUY-TR
MIC811SUY-TR
MIC811TUY-TR
MIC812JUY-TR
MIC812LUY-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC812MUJY-TR
MIC812RUY-TR
MIC812SUY-TR
MIC812TUY-TR
MIC826LYMT-T5
MIC826LYMT-TR
MIC826MYMT-T5
MIC826MYMT-TR
MIC826RYMT-T5
MIC826RYMT-TR
MIC826SYMT-T5
MIC826SYMT-TR
MIC826TYMT-T5
MIC826TYMT-TR
MIC826WYMT-T5
MIC826WYMT-TR
MIC826YYMT-T5
MIC826YYMT-TR
MIC826ZYM-T5
MIC826ZYM-TR
MIC94030YM4-TR
MIC94040YFL-TR
MIC94041YFL-TR
MIC94042YFL-TR
MIC94043YFL-TR
MIC94044YFL-TR
MIC94045YFL-TR
MIC94050YM4-TR
MIC94051YM4-TR
MIC94052YC6-TR
MIC94053YC6-TR
MIC94060YC6-TR
MIC94060YMT-TR
MIC94061YC6-TR
MIC94061YMT-TR
MIC94062YC6-TR
MIC94062YMT-TR
MIC94063YC6-TR
MIC94063YMT-TR
MIC94064YC6-TR
MIC94064YMT-TR
MIC94065YC6-TR
MIC94065YMT-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-31GTPQ691
CATALOG_PART_NBR
MIC94066YML-TR
MIC94067YML-TR
MIC94068YML-TR
MIC94069YML-TR
MIC94070YC6-TR
MIC94070YC6-TX
MIC94070YMT-TR
MIC94071YC6-TR
MIC94071YC6-TX
MIC94071YMT-TR
MIC94072YC6-TR
MIC94072YC6-TX
MIC94072YMT-TR
MIC94073YC6-TR
MIC94073YC6-TX
MIC94073YMT-TR
MIC94080YFT-TR
MIC94081YFT-TR
MIC94082YFT-TR
MIC94083YFT-TR
MIC94084YFT-TR
MIC94085YFT-TR
MIC94090YC6-TR
MIC94090YMT-TR
MIC94091YC6-TR
MIC94091YMT-TR
MIC94092YC6-TR
MIC94092YMT-TR
MIC94093YC6-TR
MIC94093YMT-TR
MIC94094YC6-TR
MIC94094YMT-TR
MIC94095YC6-TR
MIC94095YMT-TR
SPN015011-TR
SPN025012-TR
SPN025013-TR
SPN030039Y
SPN030039Y-TR
SPN030050G-TR
SPN035006G-TR



Micrel San Jose CA (SJ) to Microchip Fabrication Sites (Tempe, AZ, Gresham, OR, and Colorado Springs, CO USA) Fab Transfer of CSI05 Frequently Asked Questions (FAQ)

Revision 2 – May 4, 2017

Why is Microchip making this change? The Micrel 6 inch fabrication facility in San Jose is closing. The Microchip fabrication facilities (Tempe, AZ, Gresham, OR, and Colorado Springs, CO USA) will provide more capacity that will ensure continuity of supply. Microchip’s fabrication sites have improved defect control/inspections and more efficient/diversified fab equipment.

What is and what is not changing?

	Pre Change	Post Change	
Fabrication Location	Micrel Fabrication Site (San Jose, CA, USA)	Primary Fab Location: Microchip Fabrication Sites (Tempe, AZ and Gresham, OR, USA)	Backup Fab Location: Atmel Fabrication site FAB 5 (Colorado Springs, CO USA)
Wafer Diameter	6 inches (150 mm)	8 inches (200 mm)	6 inches (150 mm)
Quality certification	ISO9001	ISO/TS16949	ISO9001/TS16949
Data sheet / specifications	No Change	No Change	No Change
Design/layout	No Change	No Change	No Change
Die Size	No change	No change	No change
Final test program	No change	No change	No change
Package Type/MSL	No Change	No Change	No Change

Why is Microchip qualifying the MCSO 6” location in addition to the 8” locations for the CSI05 process technology? The reason the MCSO 6” location is being qualified as a backup site is to ensure continuity of supply by not constraining capacity of only 1 or 2 fabrication locations. The Microchip Fabrication sites locations using 8 inch wafers will become the primary location and the only site that will ship products in this process technology (CSI05) while the Colorado Springs location will be backup fab site which can be used if there is some sort of critical issue.

What products are affected and what is the notification strategy? Microchip has identified the parts affected and is implementing a notification strategy with a three phase Product/Process Change Notice (PCN) approach.

Phase 1: Microchip issued an initial PCN ([PCN#JAON-31GTPQ691](#)) on February 8, 2017. The PCN includes the following information:

- a. Qualification plan.
- b. Anticipated quarter and year for availability of the qualification report.
- c. Affected parts list

Phase 2: Microchip will issue an intermediate PCN after qualification has completed. Included in this PCN is:

- a. Qualification report
- b. Complete list of Catalog Part Numbers (CPN) for the qualified CSI05 process technology.

The objective of this PCN is to notify customers that the CSI05 process technology has completed qualification and provide the report.

Phase 3: Microchip will issue Final PCNs as Microchip fabricated CPNs are released to production. Each of these PCNs will include:

- a. The Estimated First Ship Date (EFSD) of each CPN. Please note that there will be multiple PCNs issued over several months/years before implementation on all products has completed. Products from Microchip Fabs will not ship until after a phase 3 PCN has been issued and applicable CPN listed.

How does Microchip issue PCN's to customers? Microchip provides a PCN service. As part of this service customers have the option to receive PCNs via email if they register for PCN email service or view PCNs without registration on Microchips website. For information about how to register for PCN email service and all PCN services please view our PCN policy. The link to Microchip's PCN policy is:

http://ww1.microchip.com/downloads/en/DeviceDoc/PCN_EOL%20Policy_MCHP.pdf

What is Microchip's fabrication transfer qualification strategy?

Microchip is using the following approach:

1. Copy functional (i.e. match the fab process films/design rules and device structures). There will be no change to the product datasheet specifications.
2. Follow Micrel's original qualification guidelines (JEDEC JC14 compliant). The qualification plan will be included in the initial PCN as referenced above.

How does the qualification data pertain to my device? Numerous catalog part numbers of various product types are produced from the CSI05 process technology. Since it is not practical to qualify each individual part number, Microchip verifies the functionality and parametrics of each individual underlying product type. For the **BCD & CSI .5 um** process technology qualification, a representative CPN was selected to be the primary qualification device.

The CSI05 process technology will qualify by similarity to the BCD05 process technology using the following methodology: Three fab lots go through high temperature operation life (HTOL)/package level qualification testing and one fab lot goes through electrostatic discharge (ESD) and latch up (LU) testing to represent when the technology is qualified for production. All lots must pass high temperature operation life (HTOL), ESD, LU, preconditioning, temperature cycling, unbiased HAST, biased HAST, pressure pot, and high temperature storage testing per JEDEC guidelines. Please note that for ESD & LU tests, the acceptance criteria is to meet or exceed current Micrel San Jose 6" fabbed product. All qualification CPNs will be represented by the BCD05 process technology and a

qualification report will be included in the phase 2 intermediate PCN.

How will Microchip verify functionality of the Microchip fabricated material? To ensure that the Microchip fabricated devices behave statistically the same as the respective Micrel fabricated material, Microchip will perform production testing and/or bench testing using Micrel SJ and MCSO fabricated samples. Then Microchip will compare the electrical distributions for the critical test parameters with the expectation that they are statistically equivalent.

Will the Catalog Part Number (CPN) change? No. The CPN will not change.

How can I determine if a product was fabricated in the Micrel or Microchip Fab? The trace code can be used to determine the difference between Micrel SJ and MCSO fabricated material. The customers will be required to provide the trace codes to the local Microchip sales office for assistance in determining the die source. The trace code is located on the product's top marking.

What is Microchip's experience with Fab transfers? Microchip has successfully completed several Fab transfers over the last 16 years representing millions of devices shipped to a large variety of customers within the automotive, medical, aerospace, industrial, and commercial segments.

Can I obtain Microchip fabricated samples for evaluation and/or qualification? Yes, customers should contact their authorized Microchip support channel to enter a request for samples.

Samples will not be available until MCSO fabricated devices are released to production. Customers will be made aware that devices are released to production when the final PCNs are issued.

How will Microchip manage stability of supply during the transition? Microchip has built Micrel fabricated inventory based on historic monthly ship rates to fulfill customer orders until Microchip fabricated inventory is available.