





JAON-22ZKEM744 - CCB 1737.02 Intermediate Notice: Qualification of Microchip 8 inch Fabrication site for Micrel products manufactured with the BCD2 Process Technology.

Affected Catalog Part Numbers (CPN)

PCN_JAON-22ZKEM744
CATALOG_PART_NBR
MIC2586R-1YM
MIC2586R-2YM
MIC4609YSM-TR
MIC4609YWM-TR
MIC2010-1PZQS
MIC2010-1PZQS-TR
MIC2010-2PZQS
MIC2010-2PZQS-TR
MIC2012-1PZQS
MIC2012-1PZQS-TR
MIC2012-2PZQS
MIC2012-2PZQS-TR
MIC2012PZM
MIC2012PZM-TR
MIC2012YM
MIC2012YM-TR
MIC2012ZM
MIC2012ZM-TR
MIC2025-1YM
MIC2025-1YMM
MIC2025-1YMM-TR
MIC2025-1YM-TR
MIC2025-2YM
MIC2025-2YMM
MIC2025-2YMM-TR
MIC2025-2YM-TR
MIC2026-1YM
MIC2026-1YM-TR
MIC2026-2YM
MIC2026-2YM-TR
MIC2027-1YM
MIC2027-1YM-TR
MIC2027-1YWM
MIC2027-1YWM-TR
MIC2027-2YM
MIC2027-2YM-TR
MIC2027-2YWM
MIC2027-2YWM-TR
MIC2040-1YMM
MIC2040-1YMM-TR
MIC2040-2YMM
MIC2040-2YMM-TR
MIC2041-1YMM

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PCN_JAON-22ZKEM744
CATALOG_PART_NBR
MIC2041-1YMM-TR
MIC2041-2YMM
MIC2041-2YMM-TR
MIC2042-1YM
MIC2042-1YM-TR
MIC2042-1YTS
MIC2042-1YTS-TR
MIC2042-2YM
MIC2042-2YM-TR
MIC2042-2YTS
MIC2042-2YTS-TR
MIC2043-1YM
MIC2043-1YM-TR
MIC2043-1YTS
MIC2043-1YTS-TR
MIC2043-2YM
MIC2043-2YM-TR
MIC2043-2YTS
MIC2043-2YTS-TR
MIC2044-1YTS
MIC2044-1YTS-TR
MIC2044-2YTS
MIC2044-2YTS-TR
MIC2045-1YTS
MIC2045-1YTS-TR
MIC2045-2YTS
MIC2045-2YTS-TR
MIC2072-2PZQS
MIC2072-2PZQS-TR
MIC2073-1YM
MIC2073-1YM-TR
MIC2073-2YM
MIC2073-2YM-TR
MIC2074-1YM
MIC2074-1YM-TR
MIC2074-2YM
MIC2074-2YM-TR
MIC2075-1YM
MIC2075-1YMM
MIC2075-1YMM-TR
MIC2075-1YM-TR
MIC2075-2YM
MIC2075-2YMM

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PCN_JAON-22ZKEM744
CATALOG_PART_NBR
MIC2075-2YMM-TR
MIC2075-2YM-TR
MIC2076-1YM
MIC2076-1YM-TR
MIC2076-2YM
MIC2076-2YM-TR
MIC2077-1YM
MIC2077-1YM-TR
MIC2077-1YWM
MIC2077-1YWM-TR
MIC2077-2YM
MIC2077-2YM-TR
MIC2077-2YWM
MIC2077-2YWM-TR
MIC2536-1YM
MIC2536-1YMM
MIC2536-1YMM-TR
MIC2536-1YM-TR
MIC2536-2YM
MIC2536-2YMM
MIC2536-2YMM-TR
MIC2536-2YM-TR
MIC2537-1YM
MIC2537-1YM-TR
MIC2537-2YM
MIC2537-2YM-TR
MIC2544-1YM
MIC2544-1YMM
MIC2544-1YMM-TR
MIC2544-1YM-TR
MIC2544-2YM
MIC2544-2YMM
MIC2544-2YMM-TR
MIC2544-2YMM-TR
MIC2544-2YM-TR
MIC2545A-1YM
MIC2545A-1YM-TR
MIC2545A-1YN
MIC2545A-1YTS
MIC2545A-1YTS-TR
MIC2545A-2YM
MIC2545A-2YM-TR
MIC2545A-2YN

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PCN_JAON-22ZKEM744
CATALOG_PART_NBR
MIC2545A-2YTS
MIC2545A-2YTS-TR
MIC2546-1YM
MIC2546-1YM-TR
MIC2546-1YTS
MIC2546-1YTS-TR
MIC2546-2YM
MIC2546-2YM-TR
MIC2546-2YTS
MIC2546-2YTS-TR
MIC2547-1YM
MIC2547-1YM-TR
MIC2547-1YTS
MIC2547-1YTS-TR
MIC2547-2YM
MIC2547-2YM-TR
MIC2547-2YTS
MIC2547-2YTS-TR
MIC2548-1YM
MIC2548-1YMM
MIC2548-1YMM-TR
MIC2548-1YM-TR
MIC2548-2YM
MIC2548-2YMM
MIC2548-2YMM-TR
MIC2548-2YM-TR
MIC2549A-1YM
MIC2549A-1YM-TR
MIC2549A-1YN
MIC2549A-1YTS
MIC2549A-1YTS-TR
MIC2549A-2YM
MIC2549A-2YM-TR
MIC2549A-2YN
MIC2549A-2YTS
MIC2549A-2YTS-TR
MIC2564A-1YTS
MIC2564A-1YTS-TR
MIC2566-0YM
MIC2566-0YTS
MIC2566-0YTS-TR
MIC2566-1YM
MIC2568-0YSM

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Affected Catalog Part Numbers (CPN)

PCN_JAON-22ZKEM744
CATALOG_PART_NBR
MIC2568-0YSM-TR
MIC2568-1YSM
MIC2568-1YSM-TR
MIC2587-1YM
MIC2587-1YM-TR
MIC2587-2YM
MIC2587-2YM-TR
MIC2587R-1YM
MIC2587R-1YM-TR
MIC2587R-2YM
MIC2587R-2YM-TR
MIC4830YML-TR
MIC4830YMM
MIC4830YMM-TR
MIC4832YML-TR
MIC4832YMM
MIC4832YMM-TR
MIC4833YML-TR
MIC4834YML-TR
MIC4834YMM
MIC4834YMM-TR
MIC502YM
MIC502YM-TR
MIC502YN
MIC5162YMM
MIC5162YMM-TR
MIC5163YMM
MIC5163YMM-TR
MIC7211YM5-TR
MIC7221YM5-TR
MIC7221YM5-TX
MIC910YM5-TR
MIC911YM5-TR
MIC912YM5-TR
MIC9130YM
MIC9130YM-TR
MIC9130YQS
MIC9130YQS-TR
MIC9131YM
MIC9131YM-TR
MIC9131YQS
MIC9131YQS-TR
MIC913YM5-TR

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Affected Catalog Part Numbers (CPN)

PCN_JAON-22ZKEM744
CATALOG_PART_NBR
MIC914YM5-TR
MIC915YMM
MIC915YMM-TR
MIC916YQS
MIC916YQS-TR
SPN011014G-TR
SPN011021G-TR
SPN011026G
SPN011026G-TR
SPN011031-TR
SPN011032-TR
SPN011033-TR
SPN011034-TR
SPN011035-TR
SPN011036-TR
SPN020139G
SPN020139G-TR





**MICROCHIP**

**QUALIFICATION REPORT**  
RELIABILITY LABORATORY

**PCN #: JAON-22ZKEM744**

**Date**  
**February 8, 2016**

**Qualification of Microchip 8 inch Fabrication site for Micrel products  
manufactured with the BCD2 Process Technology.**

PART NUMBER	PACKAGE TYPE	ASSEMBLY LOCATION	WAFER SIZE	PROCESS NAME
MIC2026-1YM /238A0/1	SOIC-8L	STARS, THAILAND	8"	BCD2

#### DIE QUALIFICATION RESULTS

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	168 HR Rej/ss	500 HR Rej/ss	1000 HR Rej/ss	COMMENTS
<b>HTOL</b> High Temperature Operating Life Test	JESD22, Method 108	1542	V216.195868.000MQA	0/77	0/77	0/77	
	TA= + 125°C	1543	V216.195868.100MQA	0/77	0/77	0/77	
	VCC = 5.5V	1545	V216.216184.100MQA	0/77	0/77	0/77	

#### ELECTROSTATIC DISCHARGE

TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
<b>ESD-HBM</b> Human Body Model ATE Test @ Room +25C	R= 1500 Ohms C= 100 pF 1X +/- Voltage	1542	V216.195868.000MQA	+/-2000V	0/3	Note: ESD ratings are device specific. All Products qualified on the 8" Micrel process technologies will have the same or better ESD and Latch-up performance as the 6" San Jose Products.
<b>ESD-CDM</b> Charged Device Model ATE Test @ Room +25C	JESD22-C101 1X +/- Voltage	1542	V216.195868.000MQA	+/-1500V	0/3	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	STRESS	RESULT Rej/ss	COMMENTS
<b>LATCH-UP</b>	JESD-78 TA = +25°C	1542	V216.195868.000MQA	I/O LU O/V LU	0/6 0/6	

PACKAGE QUALIFICATION RESULTS					
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	Rej/ss	COMMENTS
Level 1 Pre-conditioning Flow	JESD22-A113	1542	V216.195868.000MQA	0/321	
		1543	V216.195868.100MQA	0/143	
		1545	V216.216184.100MQA	0/145	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
PRESSURE POT With Level 1 Pre- conditioning Tpeak + 260°C 3X Reflow	JESD22-A102  Ta = +121°C/100%RH  15 PSIG	1542	V216.195868.000MQA	0/45	
		1543	V216.195868.100MQA	0/45	
		1545	V216.216184.100MQA	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	96 HR Rej/ss	COMMENTS
HAST With Level 1 Pre- conditioning Tpeak + 260°C 3X Reflow	JESD22-A110 (BIASED)  Ta= +130°C/85%RH  JESD22-A118 (UNBIASED)	1542	V216.195868.000MQA	0/45	
		1543	V216.195868.100MQA	0/45	
		1545	V216.216184.100MQA	0/45	
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	1542	V216.195868.000MQA	0/45	
		1543	V216.195868.100MQA	0/45	
		1545	V216.216184.100MQA	0/45	
TEST DESCRIPTION	METHOD/CONDITIONS	DATE CODE	LOT ID.	1000 HR Rej/ss	COMMENTS
HTSL High Temperature Storage Life With Level 1 Pre- conditioning	JESD22-A103  Ta = +150°C	1542	V216.195868.000MQA	0/76	
		1542	V216.195868.000MQA	0/76	
HTSL High Temperature Storage Life With Level 1 Pre- conditioning	JESD22-A103  Ta = +175°C	1542	V216.195868.000MQA	0/76	
		1542	V216.195868.000MQA	0/76	
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.			