

PCN # 2361NA

DATE: July 3, 2023

EXPECTED PCN SHIP DATE: July 3, 2023



Quality Assurance
160 Rio Robles
San Jose, CA 95134

www.maximintegrated.com

PROCESS CHANGE NOTICE
 PRODUCT CHANGE NOTICE

ANALOG DEVICES HEREBY ISSUES NOTIFICATION OF CHANGE
THAT MAY AFFECT THE FOLLOWING CATEGORIES:

<input type="checkbox"/> DESIGN	<input checked="" type="checkbox"/> WAFER FAB	<input type="checkbox"/> ASSEMBLY	<input type="checkbox"/> TEST	<input type="checkbox"/> ELEC/MECH SPECS
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AFFECTED PRODUCT:

Ordering P/N: (See PN listing XLS in PCN ZIP file)

<p>CHANGE FROM: - Wafer size change for ADI products in current S12 process Current 6-inch wafer size fabricated at ADI's Beaverton/Oregon foundry (ADBN)</p>	<p>CHANGE TO: - Move to 8-inch wafer size at same ADI's Beaverton/Oregon foundry (ADBN)</p>
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JUSTIFICATION: -
ADI is moving to the 8-inch process to ensure adequate capacity for supply continuity.
ADI has been shipping products fabricated on 8-inch wafers in mass production from ADBN since 2010.

The 8-inch flow reliability/qualification report is attached.

The Form/Fit/Function of the devices is unchanged.

TRACEABILITY: Analog Device maintains full traceability by device marking, packaging labels and shipment documents.

Analog Devices's Change Notification System is designed to keep our customer base apprised of major product, manufacturing, or facility improvements.

Nasser Ali Chaouche

Nasser AliChaouche / PCN Coordinator

For further information, please contact either of the people listed below.

Contact your local Analog Devices Company Representative or Nasser AliChaouche, PCN Coordinator
408-601-5660 / pcn.coordinator@maximintegrated.com

Affected product numbers	Customer part number	PCN Proposed Ship Date
MAX1687ESA+		03-JUL-2023
MAX1692EUB+		03-JUL-2023
MAX1692EUB+T		03-JUL-2023
MAX1692EUB+TG069		03-JUL-2023
MAX1708EEE+		03-JUL-2023
MAX1708EEE+T		03-JUL-2023
MAX1711EEG+		03-JUL-2023
MAX1711EEG+T		03-JUL-2023
MAX1714AEEP+		03-JUL-2023
MAX1714AEEP+T		03-JUL-2023
MAX1718BEEI+		03-JUL-2023
MAX1718BEEI+T		03-JUL-2023
MAX1735EUK25+		03-JUL-2023
MAX1735EUK25+T		03-JUL-2023
MAX1735EUK30+		03-JUL-2023
MAX1735EUK30+T		03-JUL-2023
MAX1735EUK50+		03-JUL-2023
MAX1735EUK50+T		03-JUL-2023
MAX1924XEEE+		03-JUL-2023
MAX1924XEEE+T		03-JUL-2023
MAX1937EEI+		03-JUL-2023
MAX1937EEI+T		03-JUL-2023
MAX4070AUA+		03-JUL-2023
MAX4070AUA+T		03-JUL-2023
MAX4071ATA+		03-JUL-2023
MAX4071ATA+T		03-JUL-2023
MAX4071AUA+		03-JUL-2023
MAX4071AUA+T		03-JUL-2023
MAX4077EUA+		03-JUL-2023
MAX4077EUA+T		03-JUL-2023
MAX4173TESA+		03-JUL-2023
MAX4173TESA+T		03-JUL-2023
MAX4173TEUT+		03-JUL-2023
MAX4173TEUT+C4X		03-JUL-2023
MAX4173TEUT+T		03-JUL-2023
MAX4281EUK+		03-JUL-2023
MAX4281EUK+T		03-JUL-2023
MAX4295EEE+		03-JUL-2023
MAX4295EEE+T		03-JUL-2023
MAX4295ESE+		03-JUL-2023
MAX4295ESE+T		03-JUL-2023
MAX4378FASD+		03-JUL-2023
MAX4378FASD+T		03-JUL-2023
MAX4378FAUD+		03-JUL-2023
MAX4378FAUD+T		03-JUL-2023
MAX4378HASD+		03-JUL-2023

MAX4378HASD+T		03-JUL-2023
MAX4378HAUD+		03-JUL-2023
MAX4378HAUD+T		03-JUL-2023
MAX4461HETT+		03-JUL-2023
MAX4461HETT+T		03-JUL-2023
MAX4548EAX+		03-JUL-2023
MAX4571CEI+		03-JUL-2023
MAX4571CEI+T		03-JUL-2023
MAX4571CWI+		03-JUL-2023
MAX4572CEI+		03-JUL-2023
MAX4572EAI+		03-JUL-2023
MAX4572EAI+T		03-JUL-2023
MAX4573CAI+		03-JUL-2023
MAX4573CAI+T		03-JUL-2023
MAX4574CEI+		03-JUL-2023
MAX4574EEI+		03-JUL-2023
MAX4574EEI+T		03-JUL-2023
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MAX5122AEEE+T		03-JUL-2023
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MAX5122BEEE+T		03-JUL-2023
MAX5123AEEE+		03-JUL-2023
MAX5123AEEE+T		03-JUL-2023
MAX5123BEEE+		03-JUL-2023
MAX5123BEEE+T		03-JUL-2023
MAX5132AEEE+		03-JUL-2023
MAX5132BEEE+		03-JUL-2023
MAX5170AEEE+		03-JUL-2023
MAX5170AEEE+T		03-JUL-2023
MAX5170BEEE+		03-JUL-2023
MAX5170BEEE+T		03-JUL-2023
MAX6018AEUR12+		03-JUL-2023
MAX6018AEUR12+T		03-JUL-2023
MAX6018AEUR18+		03-JUL-2023
MAX6018AEUR18+T		03-JUL-2023
MAX6018BEUR12+		03-JUL-2023
MAX6018BEUR12+T		03-JUL-2023
MAX6018BEUR18+		03-JUL-2023
MAX6018BEUR18+T		03-JUL-2023
MAX6029ESA25+		03-JUL-2023
MAX6029ESA25+T		03-JUL-2023
MAX6029EUK25+T		03-JUL-2023
MAX6029EUK50+		03-JUL-2023
MAX6029EUK50+T		03-JUL-2023
MAX6033BAUT25+		03-JUL-2023
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MAX6033CAUT41+		03-JUL-2023
MAX6033CAUT41+T		03-JUL-2023
MAX6033CAUT50+		03-JUL-2023
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MAX606EUA+		03-JUL-2023
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MAX6126A21+		03-JUL-2023
MAX6126A21+T		03-JUL-2023
MAX6126A21/GG8		03-JUL-2023
MAX6126A25+		03-JUL-2023
MAX6126A25+T		03-JUL-2023
MAX6126A41+		03-JUL-2023
MAX6126A41+T		03-JUL-2023
MAX6126AASA21+		03-JUL-2023
MAX6126AASA21+T		03-JUL-2023
MAX6126AASA21/GG8		03-JUL-2023
MAX6126AASA25+		03-JUL-2023
MAX6126AASA25+T		03-JUL-2023
MAX6126AASA25/GG8		03-JUL-2023
MAX6126AASA41+		03-JUL-2023
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MAX6126BASA21+T		03-JUL-2023
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MAX6126BASA25+T		03-JUL-2023
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MAX6804US26D3+		03-JUL-2023
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MAX6804US31D3+		03-JUL-2023
MAX6804US31D3+T		03-JUL-2023
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MAX6805US46D3+		03-JUL-2023
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MAX821TUS+T		03-JUL-2023
MAX821TUS/GG8		03-JUL-2023
MAX822LUS+		03-JUL-2023
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MAX822SUS+		03-JUL-2023
MAX822SUS+T		03-JUL-2023
MAX8860EUA18+		03-JUL-2023
MAX8860EUA18+G65		03-JUL-2023
MAX8860EUA18+T		03-JUL-2023
MAX8860EUA18+TG65		03-JUL-2023
MAX8860EUA25+		03-JUL-2023
MAX8860EUA25+T		03-JUL-2023
MAX8860EUA27+		03-JUL-2023
MAX8860EUA27+T		03-JUL-2023
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MAX986EXK+		03-JUL-2023
MAX986EXK+T		03-JUL-2023
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MAX987EXK+T		03-JUL-2023
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MAX988EXK+T		03-JUL-2023
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MAX992EKA+T		03-JUL-2023
MAX992ESA+		03-JUL-2023
MAX992ESA+T		03-JUL-2023
MAX992EUA+		03-JUL-2023
MAX992EUA+T		03-JUL-2023
MAX995ESD+		03-JUL-2023
MAX995ESD+T		03-JUL-2023
MAX995EUD+		03-JUL-2023
MAX995EUD+T		03-JUL-2023
MAX996ESD+		03-JUL-2023
MAX996ESD+T		03-JUL-2023
MAX996EUD+		03-JUL-2023
MAX996EUD+T		03-JUL-2023

PURPOSE:

To qualify 1.2um S12EIFW on 8-inch wafer line at MFN fab.

CONCLUSION:

All three qualification lots have passed Maxim's reliability requirements for full qualification. Therefore, MFN B12EIFW (8 inch version of S12/6 inch) process is qualified.

Qualification Requirements/Acceptance Criteria

A minimum of 3 wafer lots need to be tested according to the following conditions. Listed also are the defined sample plans and acceptance criteria for qualification.

Standard Stress Tests	Test Conditions	Sample Plan / Criteria
Life Test	135°C, 1000 hours	1/77 or 5% LTPD
HAST Test *	130°C/85% R.H. 100 hours	0/45 or 5% LTPD
Pressure Pot	121°C/100% R.H., 15psig, 168 hours	0/77 or 3% LTPD
Temperature Cycle *	-65°C to 150°C, 1000 cycles	1/77 or 5% LTPD
High Temp Storage	150°C, 1000 hrs	1/77 or 5% LTPD
ESD (HBM)	Per specifications	0/5
Latch-up	Per specifications	0/5 @ 250 mA
Wire Bond Pull	5 grams minimum	5% LTPD

* Convection reflow preconditioning is required for SMT package devices.

MFN B12EIFW 8-inch Process Qualification Test Results

Device:		MAX1632AEAI+X01	MAX1715EEI+X01	MAX147BEPP/BEAP+X01
DieType:		PW57T-2Z	PX64Y-1Z	AC18Z
Lot No.:		JSD2F2536BA	JUABH2001E	JV7AE2004F/BC
Date Code:		0617	0617	0622/0621
Rel No.:		R060002A	R060002B	R060002C
Test	Time	Result	Result	Result
Life Test 135°C	192-hr 500-hr 1000-hr	0/77 0/77 0/77	0/77 0/77 0/77	Skip 0/77*1 0/77*1
HAST	100-hr	0/45	0/43	0/44
Pressure Pot	168-hr	0/77	0/74	0/75
Temp. Cycle	200X 500X 1000X	0/77 0/77 0/76	0/77 0/77 0/77	Skip 0/77 0/74
High Temp. Storage	500-hr 1000-hr	0/77 0/77	0/77 0/77	0/77 0/76
ESD	Human Body Model	Pass 400V	Pass 400V	Pass 800V
Latch-up	Per spec	Pass 250mA	Pass 250mA	Pass 250mA
Wire Bond Pull	>5 grams	0/200	0/200	0/198

Note: *1 PDIP package (MAX147BEPP) used