Product/Process Change Notice - PCN 20_0296 Rev. -

Analog Devices, Inc. Three Technology Way Norwood, Massachusetts 02062-9106

This notice is to inform you of a change that will be made to certain ADI products (see Appendix A) that you may have purchased in the last 2 years. **Any inquiries or requests with this PCN (additional data or samples) must be sent to ADI within 30 days of publication date.** ADI contact information is listed below.

PCN Title: ADI Philippines as an Alternate Assembly Plant for Radiation Hardened Products in Cerpak and Die Sales.

Publication Date: 17-Sep-2020

Effectivity Date: 20-Dec-2020 *(the earliest date that a customer could expect to receive changed material)*

Revision Description:
Initial Release

Description Of Change:

ADI Philippines (ADPI) is being added as an alternate assembly plant to ADI Hillview for Radiation Hardened products in cerpak packages and RH die sales.

Reason For Change:

The use of ADPI as an alternate assembly site will ensure continued source of supply, optimized on-time delivery to the customers, and is in accordance with ADI Global Operations and Technology strategic plans.

These products will continue to be manufactured on the same platforms, using the same Analog Devices (LTC) programs, monitors and controls as before. ADI Philippines is currently in high volume production for the similar packages.

Impact of the change (positive or negative) on fit, form, function & reliability:

The products will have no change to the fit, form, function and reliability.

Product Identification *(this section will describe how to identify the changed material)*

The assembly location can be identified by Certificate of Conformance (C of C) and Country of Origin (COO) marked at backside of packages.

Summary of Supporting Information:

Qualification has been performed per Industry Standard Test Methods. See attached Qualification Results Summary.

Supporting Documents

Attachment 1: Type: Qualification Results Summary

ADI_PCN_20_0296_Rev_-_Cerpak (W).doc

Attachment 2: Type: Qualification Results Summary

ADI_PCN_20_0296_Rev_-_Cerpak 1 Mil Wire.doc

Attachment 3: Type: Qualification Results Summary

ADI_PCN_20_0296_Rev_-_Silver Glass Cerpak (W10).doc

For questions on this PCN, please send an email to the regional contacts below or contact your local ADI sales representatives.			
Americas: PCN_Americas@analog.com	**Europe:** PCN_Europe@analog.com	**Japan:** PCN_Japan@analog.com	**Rest of Asia:** PCN_ROA@analog.com

Appendix A - Affected ADI Models				
Added Parts On This Revision - Product Family / Model Number (63)				
RH1009 / 5962R8961002V9A	RH1009 / 5962R8961002VHA	RH1009 / RH1009DICE	RH1009 / RH1009MW	RH1011 / RH1011DICE
RH1011 / RH1011W	RH1013M / 5962R8876003V9A	RH1013M / 5962R8876003VHA	RH1013M / RH1013DICE	RH1013M / RH1013MW
RH1014M / 5962R8967703VDA	RH1014M / RH1014MW	RH1016M / RH1016MW	RH101A / RH101ADICE	RH101A / RH101AW
RH1021-10 / 5962R8860002V9A	RH1021-10 / 5962R8860002VHA	RH1021-10 / RH1021C-10DICE	RH1021-10 / RH1021CMW-10	RH1021-5 / 5962R8876202V9A
RH1021-5 / 5962R8876202VHA	RH1021-5 / RH1021C-5DICE	RH1021-5 / RH1021CMW-5	RH1028M / RH1028MDICE	RH1028M / RH1028MW
RH1034-1.2 / RH1034MW-1.2	RH1056A / RH1056AMW	RH1056A / RH1056DICE	RH1078M / RH1078MDICE	RH1078M / RH1078MW
RH1085 / RH1085MKDICE	RH1086M / 5962R8998103V9A	RH1086M / RH1086BKKDICE	RH108A / RH108ADICE	RH108A / RH108AW
RH1128M / RH1128MDICE	RH1128M / RH1128MW	RH117 / RH117HDICE	RH117 / RH117KDICE	RH118 / RH118W
RH1185 / RH1185AMKDICE	RH119 / RH119DICE	RH119 / RH119W	RH137 / RH137HDICE	RH137 / RH137KDICE
RH1498M / 5962R1325001V9A	RH1498M / 5962R1325001VHA	RH1498M / RH1498DICE	RH1498M / RH1498MW	RH1499M / 5962R1325101VDA
RH1499M / RH1499MW	RH1573K / RH1573KDICE	RH1814M / RH1814MW	RH1965 / RH1965MKDICE	RH27C / RH27CDICE
RH27C / RH27CW	RH27C / RH27EW	RH3080MK / RH3080MKDICE	RH3083MK / RH3083MKDICE	RH37C / RH37CW
RH3845MK / RH3845MKDICE	RH411 / RH411MKDICE	RH6200M / RH6200MW		

Appendix B - Revision History			
Rev	**Publish Date**	**Effectivity Date**	**Rev Description**
Rev. -	17-Sep-2020	20-Dec-2020	Initial Release

Analog Devices Inc, Hillview Assembly Site Transfer

Qualification Results and Summary of ADI Philippines Assembly of 1 Mil Wire for RH and SMD devices

TEST	SPECIFICATION TO MIL-STD-883	SAMPLE SIZE TOTAL OF 2 LOTS	RESULTS
B/2a	Resistance to Solvents Method 2015	N/A Laser Mark	PASS
B/2b	Internal Visual and Mechanical Method 2013/2014	4 units	PASS
B/2c	Bond Pull Method 2011	44 bonds	PASS
B/2d	Die Shear Method 2019	6 units	PASS
B/3	Solderability Method 2003	72 leads	PASS
B/5	Pre-test 3 temp.	160 units	PASS
	Steady-State Life Method 1005 Cond. C 150C/ 500hrs	160 units	PASS
	Post-test 3 temp.	160 units	PASS
B/6	Pre-test 3 temp.	34 units	PASS
	Temp. Cycling Method 1010, Cond. C	34 units	PASS
	Constant Acceleration Method 2001, Cond. E	34 units	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	34 units	PASS
	Post-test 3 temp.	34 units	PASS
D/1	Physical Dimensions Method 2016	30 units	PASS
D/2	Lead Integrity Method 2004, Cond. B2	90 leads	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	90 leads	PASS
D/3	Pre-test 3 temp.	34 units	PASS
	Thermal Shock Method 1011, Cond. B	34 units	PASS
	Temperature Cycling Method 1010, Cond. C	34 units	PASS

D/3	Moisture Resistance Method 1004	34 units	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	34 units	PASS
	Visual Examination Method 1004/1010	34 units	PASS
	Post-test 3 temp.	34 units	PASS
D/4	Pre-test 3 temp.	34 units	PASS
	Mechanical Shock Method 2002, Cond. B	34 units	PASS
	Vibration Variable Frequency Method 2007, Cond. A	34 units	PASS
	Constant Acceleration Method 2001, Cond. E	34 units	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	34 units	PASS
	Visual Examination Method 1010/1011	34 units	PASS
	Post-test 3 temp.	34 units	PASS
D/5	Salt Atmosphere Method 1009, Cond. A	30 units	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	30 units	PASS
	Visual Examination Method 1009	30 units	PASS
D/6	Internal Water Vapor Method 1018	6 units	PASS
D/7	Adhesion of Lead Finish Method 2025	30 leads	PASS
D/8	Lid Torque Method 2024	10 units	PASS

Analog Devices Inc, Hillview Assembly Site Transfer

Qualification Results and Summary of ADI Philippines Assembly of Cerpak (W) for RH and SMD devices

TEST	SPECIFICATION TO MIL-STD-883	SAMPLE SIZE TOTAL OF 2 LOTS	RESULTS
B/2b	Internal Visual and Mechanical Method 2013/2014	4 units	PASS
B/2c	Bond Pull Method 2011	44 bonds	PASS
B/2d	Die Shear Method 2019	6 units	PASS
B/3	Solderability Method 2003	72 leads	PASS
B/5	Pre-test 3 temp.	160 units	PASS
	Steady-State Life Method 1005 Cond. C 150C/ 500hrs	160 units	PASS
	Post-test 3 temp.	160 units	PASS
B/6	Pre-test 3 temp.	34 units	PASS
	Temp. Cycling Method 1010, Cond. C	34 units	PASS
	Constant Acceleration Method 2001, Cond. E	34 units	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	34 units	PASS
	Post-test 3 temp.	34 units	PASS
D/1	Physical Dimensions Method 2016	30 units	PASS
D/2	Lead Integrity Method 2004, Cond. B2	90 leads	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	90 leads	PASS
D/3	Pre-test 3 temp.	34 units	PASS
	Thermal Shock Method 1011, Cond. B	34 units	PASS
	Temperature Cycling Method 1010, Cond. C	34 units	PASS
	Moisture Resistance Method 1004	34 units	PASS

D/3	Fine Leak/Gross Leak Method 1014, Cond. A and C	34 units	PASS
	Visual Examination Method 1004/1010	34 units	PASS
	Post-test 3 temp.	34 units	PASS
D/4	Pre-test 3 temp.	34 units	PASS
	Mechanical Shock Method 2002, Cond. B	34 units	PASS
	Vibration Variable Frequency Method 2007, Cond. A	34 units	PASS
	Constant Acceleration Method 2001, Cond. E	34 units	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	34 units	PASS
	Visual Examination Method 1010/1011	34 units	PASS
	Post-test 3 temp.	34 units	PASS
D/5	Salt Atmosphere Method 1009, Cond. A	30 units	PASS
	Fine Leak/Gross Leak Method 1014, Cond. A and C	30 units	PASS
	Visual Examination Method 1009	30 units	PASS
D/6	Internal Water Vapor Method 1018	6 units	PASS
D/7	Adhesion of Lead Finish Method 2025	30 leads	PASS
D/8	Lid Torque Method 2024	10 units	PASS