



Additional Source for Thermal Adhesive in Certain Flip-Chip Packages for Virtex-II, Virtex-II Pro, and Virtex-4

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FYI—For Your Information

Overview

This notice describes the qualification of a second source thermal adhesive and lid attach adhesive material for flip-chip packages. There is no form, fit, or function impact to the customer.

Description

A new thermal lid adhesive has been qualified for use on all flip-chip packages. The dual purpose material provides a thermal path between the die backside to the copper lid and structural support by attaching the lid to the substrate. The adhesion and thermal properties of the new material are comparable or better than the current thermal and lid attach adhesive.

Products Affected

The additional source affects the following:

- All Virtex™-II flip-chip packages
- All Virtex-II Pro flip-chip packages
- Virtex-4 (only the FF668 and FFG668 packages)

A complete list of base part numbers for all devices affected is available in the [Appendix](#).

Key Dates and Ordering Information

Production switch will begin to occur on date codes starting with April 23, 2006 for Virtex-II Pro and Virtex-4 package devices noted in the previous section. Xilinx reserves the option to switch Virtex-II at a later date.

Traceability

Affected devices are identified by the date code starting “0617” as shown in [Figure 1](#).



Figure 1: Virtex-II Pro, Virtex-4, and Virtex-II Package Top Marks

Recommendations

This change will be transparent to the customer. No special recommendations given.

Response

No response is required. For additional information or questions, please contact [Xilinx Technical Support](#).

Important Notice: Xilinx Customer Notices (XCNs, XDNs, and Quality Alerts) can be delivered via e-mail alerts sent by the MySupport website (<http://www.xilinx.com/support>). Register today and personalize your “MyAlerts” area to include Customer Notices. This change provides many benefits, including the ability to receive alerts for new and updated information about specific products, as well as alerts for other publications such as data sheets, errata, application notes, etc. For information on how to sign up, refer to [Xilinx Answer Record 18683](#).

Appendix

Table 1: Virtex-4 Devices Affected

XC4VLX15-10FF668C	XC4VLX15-10FFG668C	XC4VLX40-10FF668C	XC4VLX40-10FFG668C
XC4VLX15-11FF668C	XC4VLX15-11FFG668C	XC4VLX40-11FF668C	XC4VLX40-11FFG668C
XC4VLX15-12FF668C	XC4VLX15-12FFG668C	XC4VLX40-12FF668C	XC4VLX40-12FFG668C
XC4VLX15-10FF668I	XC4VLX15-10FFG668I	XC4VLX40-10FF668I	XC4VLX40-10FFG668I
XC4VLX15-11FF668I	XC4VLX15-11FFG668I	XC4VLX40-11FF668I	XC4VLX40-11FFG668I
XC4VLX25-10FF668C	XC4VLX25-10FFG668C	XC4VLX60-10FF668C	XC4VLX60-10FFG668C
XC4VLX25-11FF668C	XC4VLX25-11FFG668C	XC4VLX60-11FF668C	XC4VLX60-11FFG668C
XC4VLX25-12FF668C	XC4VLX25-12FFG668C	XC4VLX60-12FF668C	XC4VLX60-12FFG668C
XC4VLX25-10FF668I	XC4VLX25-10FFG668I	XC4VLX60-10FF668I	XC4VLX60-10FFG668I
XC4VLX25-11FF668I	XC4VLX25-11FFG668I	XC4VLX60-11FF668I	XC4VLX60-11FFG668I
XC4VSX25-10FF668C	XC4VSX25-10FFG668C	XC4VSX35-10FF668C	XC4VSX35-10FFG668C
XC4VSX25-11FF668C	XC4VSX25-11FFG668C	XC4VSX35-11FF668C	XC4VSX35-11FFG668C
XC4VSX25-12FF668C	XC4VSX25-12FFG668C	XC4VSX35-12FF668C	XC4VSX35-12FFG668C
XC4VSX25-10FF668I	XC4VSX25-10FFG668I	XC4VSX35-10FF668I	XC4VSX35-10FFG668I
XC4VSX25-11FF668I	XC4VSX25-11FFG668I	XC4VSX35-11FF668I	XC4VSX35-11FFG668I
XC4VFX12-10FF668C	XC4VFX12-10FFG668C		
XC4VFX12-11FF668C	XC4VFX12-11FFG668C		
XC4VFX12-12FF668C	XC4VFX12-12FFG668C		
XC4VFX12-10FF668I	XC4VFX12-10FFG668I		
XC4VFX12-11FF668I	XC4VFX12-11FFG668I		

Table 2: Virtex-II Devices Affected

XC2V1000-4FF896C	XC2V2000-4BF957C	XC2V3000-4BF957C
XC2V1000-4FF896I	XC2V2000-4BF957I	XC2V3000-4BF957I
XC2V1000-4FFG896C	XC2V2000-4BFG957C	XC2V3000-4BFG957C
XC2V1000-4FFG896I	XC2V2000-4BFG957I	XC2V3000-4BFG957I
XC2V1000-5FF896C	XC2V2000-4FF896C	XC2V3000-4FF1152C
XC2V1000-5FF896I	XC2V2000-4FF896I	XC2V3000-4FF1152I
XC2V1000-5FFG896C	XC2V2000-4FFG896C	XC2V3000-4FFG1152C
XC2V1000-5FFG896I	XC2V2000-4FFG896I	XC2V3000-4FFG1152I
XC2V1000-6FF896C	XC2V2000-5BF957C	XC2V3000-5BF957C
XC2V1000-6FFG896C	XC2V2000-5BF957I	XC2V3000-5BF957I
	XC2V2000-5BFG957C	XC2V3000-5BFG957C
XC2V1500-4FF896C	XC2V2000-5BFG957I	XC2V3000-5BFG957I
XC2V1500-4FF896I	XC2V2000-5FF896C	XC2V3000-5FF1152C
XC2V1500-4FFG896C	XC2V2000-5FF896I	XC2V3000-5FF1152I
XC2V1500-4FFG896I	XC2V2000-5FFG896C	XC2V3000-5FFG1152C
XC2V1500-5FF896C	XC2V2000-5FFG896I	XC2V3000-5FFG1152I
XC2V1500-5FF896I	XC2V2000-6BF957C	XC2V3000-6BF957C
XC2V1500-5FFG896C	XC2V2000-6BFG957C	XC2V3000-6BFG957C
XC2V1500-5FFG896I	XC2V2000-6FF896C	XC2V3000-6FF1152C
XC2V1500-6FF896C	XC2V2000-6FFG896C	XC2V3000-6FFG1152C
XC2V1500-6FFG896C		

Table 2: Virtex-II Devices Affected (Continued)

XC2V4000-4BF957C	XC2V6000-4BF957C	XC2V8000-4FF1152C
XC2V4000-4BF957I	XC2V6000-4BF957I	XC2V8000-4FF1152I
XC2V4000-4BFG957C	XC2V6000-4BFG957C	XC2V8000-4FF1517C
XC2V4000-4BFG957I	XC2V6000-4BFG957I	XC2V8000-4FF1517I
XC2V4000-4FF1152C	XC2V6000-4FF1152C	XC2V8000-4FFG1152C
XC2V4000-4FF1152I	XC2V6000-4FF1152I	XC2V8000-4FFG1152I
XC2V4000-4FF1517C	XC2V6000-4FF1517C	XC2V8000-4FFG1517C
XC2V4000-4FF1517I	XC2V6000-4FF1517I	XC2V8000-4FFG1517I
XC2V4000-4FFG1152C	XC2V6000-4FFG1152C	XC2V8000-5FF1152C
XC2V4000-4FFG1152I	XC2V6000-4FFG1152I	XC2V8000-5FF1152I
XC2V4000-4FFG1517C	XC2V6000-4FFG1517C	XC2V8000-5FF1517C
XC2V4000-4FFG1517I	XC2V6000-4FFG1517I	XC2V8000-5FF1517I
XC2V4000-5BF957C	XC2V6000-5BF957C	XC2V8000-5FFG1152C
XC2V4000-5BF957I	XC2V6000-5BF957I	XC2V8000-5FFG1152I
XC2V4000-5BFG957C	XC2V6000-5BFG957C	XC2V8000-5FFG1517C
XC2V4000-5BFG957I	XC2V6000-5BFG957I	XC2V8000-5FFG1517I
XC2V4000-5FF1152C	XC2V6000-5FF1152C	
XC2V4000-5FF1152I	XC2V6000-5FF1152I	
XC2V4000-5FF1517C	XC2V6000-5FF1517C	
XC2V4000-5FF1517I	XC2V6000-5FF1517I	
XC2V4000-5FFG1152C	XC2V6000-5FFG1152C	
XC2V4000-5FFG1152I	XC2V6000-5FFG1152I	
XC2V4000-5FFG1517C	XC2V6000-5FFG1517C	
XC2V4000-5FFG1517I	XC2V6000-5FFG1517I	
XC2V4000-6BF957C	XC2V6000-6BF957C	
XC2V4000-6BFG957C	XC2V6000-6BFG957C	
XC2V4000-6FF1152C	XC2V6000-6FF1152C	
XC2V4000-6FF1517C	XC2V6000-6FF1517C	
XC2V4000-6FFG1152C	XC2V6000-6FFG1152C	
XC2V4000-6FFG1517C	XC2V6000-6FFG1517C	

Table 3: Virtex-II Pro Devices Affected

XC2VP100-5FF1696C	XC2VP20-6FF896I	XC2VP4-7FF672C	XC2VP50-6FF1148I
XC2VP100-5FF1696I	XC2VP20-6FFG1152C	XC2VP4-7FFG672C	XC2VP50-6FF1152I
XC2VP100-5FF1704C	XC2VP20-6FFG1152I	XC2VP40-5FF1148C	XC2VP50-6FF1517I
XC2VP100-5FF1704I	XC2VP20-6FFG896C	XC2VP40-5FF1148I	XC2VP50-6FFG1148C
XC2VP100-5FFG1696C	XC2VP20-6FFG896I	XC2VP40-5FF1152C	XC2VP50-6FFG1148I
XC2VP100-5FFG1696I	XC2VP20-7FF1152C	XC2VP40-5FF1152I	XC2VP50-6FFG1152C
XC2VP100-5FFG1704C	XC2VP20-7FF896C	XC2VP40-5FFG1148C	XC2VP50-6FFG1152I
XC2VP100-5FFG1704I	XC2VP20-7FFG1152C	XC2VP40-5FFG1148I	XC2VP50-6FFG1517C
XC2VP100-6FF1696C	XC2VP20-7FFG896C	XC2VP40-5FFG1152C	XC2VP50-6FFG1517I
XC2VP100-6FF1696I	XC2VP30-5FF1152C	XC2VP40-5FFG1152I	XC2VP50-7FF1148C
XC2VP100-6FF1704C	XC2VP30-5FF1152I	XC2VP40-6FF1148C	XC2VP50-7FF1152C
XC2VP100-6FF1704I	XC2VP30-5FFG1152C	XC2VP40-6FF1148I	XC2VP50-7FF1517C
XC2VP100-6FFG1696C	XC2VP30-5FFG1152I	XC2VP40-6FF1152C	XC2VP50-7FFG1148C
XC2VP100-6FFG1696I	XC2VP30-5FF896C	XC2VP40-6FF1152I	XC2VP50-7FFG1152C
XC2VP100-6FFG1704C	XC2VP30-5FF896I	XC2VP40-6FFG1148C	XC2VP50-7FFG1517C
XC2VP100-6FFG1704I	XC2VP30-5FFG896C	XC2VP40-6FFG1148I	XC2VP7-5FF672C
XC2VP2-5FF672C	XC2VP30-5FFG896I	XC2VP40-6FFG1152C	XC2VP7-5FF672I
XC2VP2-5FF672I	XC2VP30-6FF1152C	XC2VP40-6FFG1152I	XC2VP7-5FF896C
XC2VP2-5FFG672C	XC2VP30-6FF1152I	XC2VP40-7FFG1148C	XC2VP7-5FF896I
XC2VP2-5FFG672I	XC2VP30-6FFG1152C	XC2VP40-7FFG1152C	XC2VP7-5FFG672C
XC2VP2-6FFG672C	XC2VP30-6FFG1152I	XC2VP40-7FF1148C	XC2VP7-5FFG672I
XC2VP2-6FFG672I	XC2VP30-6FF896C	XC2VP40-7FF1152C	XC2VP7-5FFG896C
XC2VP2-6FFG672C	XC2VP30-6FF896I	XC2VP50-5FF1148C	XC2VP7-5FFG896I
XC2VP2-6FFG672I	XC2VP30-6FFG896C	XC2VP50-5FF1152C	XC2VP7-6FF672C
XC2VP2-7FF672C	XC2VP30-6FFG896I	XC2VP50-5FF1517C	XC2VP7-6FF672I
XC2VP2-7FFG672C	XC2VP30-7FF1152C	XC2VP50-5FF1148I	XC2VP7-6FF896C
XC2VP20-5FF1152C	XC2VP30-7FFG1152C	XC2VP50-5FF1152I	XC2VP7-6FF896I
XC2VP20-5FF1152I	XC2VP30-7FF896C	XC2VP50-5FF1517I	XC2VP7-6FFG672C
XC2VP20-5FF896C	XC2VP30-7FFG896C	XC2VP50-5FFG1148C	XC2VP7-6FFG672I
XC2VP20-5FF896I	XC2VP4-5FF672C	XC2VP50-5FFG1148I	XC2VP7-6FFG896C
XC2VP20-5FFG1152C	XC2VP4-5FF672I	XC2VP50-5FFG1152C	XC2VP7-6FFG896I
XC2VP20-5FFG1152I	XC2VP4-5FFG672C	XC2VP50-5FFG1152I	XC2VP7-7FF672C
XC2VP20-5FFG896C	XC2VP4-5FFG672I	XC2VP50-5FFG1517C	XC2VP7-7FF896C
XC2VP20-5FFG896I	XC2VP4-6FFG672C	XC2VP50-5FFG1517I	XC2VP7-7FFG672C
XC2VP20-6FF1152C	XC2VP4-6FFG672I	XC2VP50-6FF1148C	XC2VP7-7FFG896C
XC2VP20-6FF1152I	XC2VP4-6FFG672C	XC2VP50-6FF1152C	XC2VP70-5FF1517C
XC2VP20-6FF896C	XC2VP4-6FFG672I	XC2VP50-6FF1517C	XC2VP70-5FF1704C

Table 3: Virtex-II Pro Devices Affected (Continued)

XC2VP70-5FF1517I	XC2VP70-7FF1517C	XC2VP70-6FFG1517C	XC2VPX20-5FF896C
XC2VP70-5FF1704I	XC2VP70-7FF1704C	XC2VP70-6FFG1517I	XC2VPX20-6FF896C
XC2VP70-6FF1517C	XC2VP70-5FFG1517C	XC2VP70-6FFG1704C	XC2VPX20-5FFG896C
XC2VP70-6FF1704C	XC2VP70-5FFG1517I	XC2VP70-6FFG1704I	XC2VPX20-6FFG896C
XC2VP70-6FF1517I	XC2VP70-5FFG1704C	XC2VP70-7FFG1517C	XC2VPX70-6FF1704C
XC2VP70-6FF1704I	XC2VP70-5FFG1704I	XC2VP70-7FFG1704C	

Revision History

The following table shows the revision history for this document.

Date	Version	Revision
5/1/06	1.0	Initial Xilinx release.