

**Subject: PCN: Changes to FX & CS product families  
for RoHS compliance  
V- CN- HUD050819**

**Date: August 18, 2005**

**From: Ram Arvikar  
603-577-6860**

**To:**

**Vectron Customers:**

This PCN affects the FX and CS frequency translator and clock smoother families made by Vectron International.

VI intends to fully support the European Union RoHS directive that requires that electronic components must be free of certain hazardous substances effective July 2006, and as a result is making a change to these products to make them fully RoHS compliant.

These products utilize a discrete PCB assembly with a metal cap. See typical product external view.



Up till now these products have not been compliant since internally they may use passive or active components that have Pb-based terminations. The product assembly however has always utilized Pb-free solder (Sn/Ag/Cu), and the termination and PCB have a non-Pb based immersion Au finish. The change to the RoHS compliant version is therefore an internal change which involves change to the internal components only by substituting equivalent ones with qualified, industry-acceptable Pb-free finish. There are no changes to the product assembly or design, and the product function and specifications will not be affected by this change.

**How will the RoHS compliant part be identified?**

The equivalent RoHS compliant version of the product will be identified with a “G” suffix to the part number, for example:

**Current Pb-based version**

FX-102-DFC-A1P6  
FX-424-DFF-A1C9  
CS-300-DFF-P2M2R4

**Changed Pb-free Version**

FX-102-DFC-A1P6**G**  
FX-424-DFF-A1C9**G**  
CS-300-DFF-P2M2R4**G**

**Compatibility for Pb-free Assembly:**

The changed lead free version will be forward compatible for lead-free assembly and will meet the reflow temperature requirements of JEDEC J-STD-020C based on the product dimensions and volume. It will also be backward compatible for current Pb-based solder assembly. The product has immersion Au finish at the terminations (surface mount pads and castellations). It is rated at MSL 1.

**When will the new part be available?**

Vectron will start to manufacture and ship the changed product in 4Q2005 after the transition from the current VI-Norwalk location to the VI-Hudson location<sup>1</sup>. Vectron will continue to offer the current Pb-based non-RoHS compliant product on a limited basis only. As communicated through the VI web-site, customers are advised that because of the difficulty in procuring the older Pb-based components used in the assembly of the product, and the need to maintain a separate manufacturing process/line, the current non-RoHS compliant versions of the FX and CS products will be offered at substantial increase in price. New quotes for the older product can be provided upon request; custom or unique parts designed to customer-specific specifications may result in higher price increase depending on the components and specification requirements.

**Request for Customer Acknowledgement & Samples:**

An acknowledgement of receipt of this PCN is attached with this PCN. Please respond with your options as indicated by the date shown. A no response by the date indicated will be assumed as your tacit approval of this PCN and Vectron will commence the shipment of the modified product.

**Additional information/Contact:**

If you need any additional information regarding this change, please contact your VI Marketing & Sales Representative or contact:

Ben Witham  
Phone: 603-577-6831  
email: [bwitham@vetron.com](mailto:bwitham@vetron.com)

Ram Arvikar  
Phone: 603-577-6860  
[rarvikar@Vectron.com](mailto:rarvikar@Vectron.com)

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<sup>1</sup> These products are currently being supplied from the VI-Norwalk location. As communicated to customers, this location will be closed and the manufacturing will be transferred to the VI-Hudson location. Starting in 4Q05 product will be supplied from the VI-Hudson location as equivalent RoHS compliant version.



**CUSTOMER NOTIFICATION OF PROPOSED PRODUCT/PROCESS CHANGE**

CPN Number: VI-CN- HUD050819 VI Location Requesting  
 Date: August 19, 2005 Change:  MHS  NBH  PST  WTB  PDG  HUD  
 Customer Approval: Required:  x  Information Only \_\_\_\_\_

Product Code(s): FX and CS product platforms \_\_\_\_\_

Part Numbers \_\_\_\_\_  
 Various. See part list attached

Project/Application:  various  \_\_\_\_\_

Customer (s)/Location(s) \_\_\_\_\_  
 Description of Change Product will be offered as Pb-free RoHS compliant version.  
 \_\_\_\_\_

**Effects of Change to:**

Appearance  No change.  \_\_\_\_\_

Product Identification  A "G" suffix to the part number to identify the equivalent RoHS compliant version.  \_\_\_\_\_

Test Specification  None.  \_\_\_\_\_

Performance Parameters  None.  \_\_\_\_\_

Reliability  None  \_\_\_\_\_

Sample Availability Date  4Q2005  \_\_\_\_\_

Estimated Shipment Date  Starting in 4Q2005 or once customer approval is received  \_\_\_\_\_

Requested Customer Response Date  Sept. 30, 2005  \_\_\_\_\_

Product Manager  B. Witham  Tel.:  603-577-6831  Fax.: \_\_\_\_\_

Respond to:  R. Arvikar  Tel.:  603-577-6860  Fax.:  603-577-6876  \_\_\_\_\_

CPN No.: <b>VI-CN-HUD050819</b>	Change Description RoHS compliant FX and CS product	Issue: 1	Date: 8/19/2005
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**VI PCN ACKNOWLEDGEMENT  
&  
RETURN RECEIPT**

**Requested Response date: Sept 30, 2005**

Upon completion, please return this form to: B. Witham  
Product Manager  
Vectron International  
267 Lowell Rd., Hudson, NH 03051  
bwitham@vectron.com

I have received the Change Proposal Notice V- CN- HUD050819 associated with the change to the FX and CS product to make them RoHS compliant.

(Please indicate below as applicable)

\_\_\_ Request models for evaluation of change

\_\_\_ Accept the changes listed and will order the modified part(s) when available.

\_\_\_ Will continue to order the current Pb-based non RoHS compliant parts. Please provide quote.

\_\_\_ Need additional information or have comments as shown below:

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Name: \_\_\_\_\_

Date: \_\_\_\_\_

Company: \_\_\_\_\_

Location/Address: \_\_\_\_\_

Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

<b>CPN No.:</b> <b>VI-CN-HUD050819</b>	<b>Change Description</b> RoHS compliant FX and CS product	<b>Issue:</b> 1	<b>Date:</b> 8/19/2005
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