



**Subject: PCN: FR-4 Board Change to FX-101, FX-102, FX-104,
and CS-300 Product Families
VI-CN-HUD071011**

Date: October 11, 2007

**From: Ben Witham
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To: All Customers

This PCN affects the following Frequency Translator product families built at Vectron's U.S. facility in Hudson NH:

FX-101, FX-102, FX-104, and CS-300

The above FX product families are crystal oscillator-based or SAW oscillator-based frequency translators which are used to translate between one to four selected input frequencies to one specific output frequency. The resulting output frequency is of high spectral purity with very low jitter. The device packaging of the FX products are built upon an FR-4 base assembly. A non-hermetic metal cover provides protection to the internal circuitry.

Previously, Vectron utilized between 1-3 different assembly boards for each product family. This PCN results in a standardized FR4 board that will be used across all of the aforementioned product families. The changes and benefits include:

- 1) Eliminate buried vias from the PWB.
- 2) Added Output Enable programmability (OE=0, or OE=1) for backward compatibility with older CT designs.
- 3) Changed to a Flash memory microcontroller.

This notification is being provided to document this change and is for information only. Qualification data is available upon request.

For further details or questions please contact:

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CUSTOMER NOTIFICATION OF PROPOSED PRODUCT/PROCESS CHANGE

CPN Number: **VI-CN- HUD071011** VI Location Requesting Change:
 Date: Sept 14, 2007 MHS NBH PST WTB PDG HUD
 Customer Approval: Required: _____ Information Only X
 Product Code(s)/Families: FR-4 Based Frequency Translators : FX-101, FX-102, FX-104, CS-300
 Part Numbers: Various
 Project/Application: _____

Customer (s)/Location(s) Various

Description of Change **FR-4 Board Change to FX-101, FX-102, FX-104, and CS-300 Product Families**

- Effects of Change to:**
- 1) Eliminate buried vias from the PWB.
 - 2) Added Output Enable programmability (OE=0, or OE=1) for backward compatibility with older CT designs.
 - 3) Changed to a Flash memory microcontroller.

Appearance No change to part number on top of cover. On the underside of the FR4 board, the board number will change.

Product Identification All product with Date Code 741 and later

Test Specification None.

Performance Parameters None.

Reliability None.

Sample Availability Date N/A

Estimated Shipment Date Implementation date 741 and later

Requested Customer Response Date N/A

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