



Subject: PCN: FR-4 Board Change to FX-200
Product Family
VI-CN-HUD071030

Date: October 30, 2007

From: Ben Witham
Tel: 603-577-6831

To: All Customers

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

FX-200

The FX-200 product family is a crystal oscillator-based or SAW oscillator-based frequency translator which is used to translate between one of two selected input frequencies to one of two specific output frequencies. 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.

Vectron slightly modified the FX-200 products to improve product manufacturability and enhance product reliability. The changes include:

- 1) Eliminate buried vias from the PWB.
- 2) Added an output Mux/driver chip (AZ E116 offshoot, 16-pin Chip-scale package) for better output performance and to eliminate low-yield oscillator interface issues.
- 3) Added Output Enable programmability (OE=0, or OE=1) for backward compatibility with older CT designs.
- 4) Modified 0402 pad shapes that eliminated tomb-stoning.
- 5) 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:

Mr. Ben Witham
Product Line Manager
Phone: 603-577-6831
bwitham@vectron.com

Mr. Joe Beauchemin
Quality Manager
Phone: 603-577-6811
jbeauchemin@vectron.com



CUSTOMER NOTIFICATION OF PROPOSED PRODUCT/PROCESS CHANGE

CPN Number: **VI-CN- HUD071030** VI Location Requesting Change:

Date: October 30, 2007 MHS NBH PST WTB PDG HUD
 Customer Approval: Required: _____ Information Only X
 Product Code(s)/Families: FR-4 Based Frequency Translators: FX-200
 Part Numbers: FX-200-DFC-S5604G (330057076), FX-200-DFC-C4XXP2P4G (330057084), FX-200-DFC-S5963G (330057092), FX-200-DFF-P2R5P2R5G (330057100), FX-200-DFC-S5963 (330058249), FX-200-DFC-S6193G (330060682)
 Project/Application: _____
 Customer (s)/Location(s) Various
 Description of Change **FR-4 Board Change to FX-200 Product Families. PWB description FX-200-3 (internal part no. 663006393)**
 Effects of Change to:

- 1) Eliminate buried vias from the PWB.
- 2) Added an output Mux/driver chip (AZ E116 offshoot, 16-pin Chip-scale package) for better output performance and to eliminate low-yield oscillator interface issues.
- 3) Added Output Enable programmability (OE=0, or OE=1) for backward compatibility with older CT designs.
- 4) Modified 0402 pad shapes that eliminated tomb-stoning.
- 5) 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 744 and later
 Test Specification None.
 Performance Parameters None.
 Reliability None.
 Sample Availability Date N/A
 Estimated Shipment Date Implementation date 744 and later
 Requested Customer Response Date N/A
 Product Line Manager B. Witham Tel.: 603-577-6831 Fax.: 603-598-0075
 Quality Manager J. Beauchemin Tel.: 603-577-6811 Fax.: 603-577-6876

CPN No.: VI-CN-HUD071030	Change Description FR-4 Board Change to FX-200 Product Family	Issue: 1	Date: 10/30/2007
---	--	---------------------------	-----------------------------------