

Subject: PCN: FR-4 Board Change to FX-101, FX-102, FX-104, Date: October 11, 2007

and CS-300 Product Families

VI-CN-HUD071011

From: Ben Witham Tel: 603-577-6831

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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CUSTOME	R NOTIFICATION OF PR	ROPOSED PR	ODUCT/PROCES	S CHAN	GE
CPN Number:	VI-CN- VI Location Requesting Change: HUD071011 MHS NBH PST WTB PDG HUD Required: Information Only X FR-4 Based Frequency Translators : FX-101, FX-102, FX-104, CS-300				
Date: Sept 14, 2007 Customer Approval:					
Product					
Code(s)/Families: Part Numbers	Various				
Project/Application:	various —————				
Customer (s)/Location(s)	Various				
Change	-4 Board Change to F	X-101, FX-1	02, 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 memor	y microcontrolle	er.	
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 late	<u>r</u>		
Requested Customer Res	ponse Date	N/A		_	
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VI-CN-HUD071011	Change Description FR-4 Board Change to 104, and CS-300 Prod		- 102, FX -	ssue:	Date: 10/11/2007