



Subject: PCN: SAW Assembly Process Change
VI-CN-061227

Date: December 27, 2006

From: Mr. Joseph Beauchemin
603-577-6811

NOTE: This PCN is intended to be a general PCN for all customers. Key customers will be notified through direct communication. VI will also post a copy on the VI Web-site (<http://www.vectron.com>) for the benefit of customers with small orders/infrequent order history or those that indirectly procure affected VI product through distribution channels.

To:
All Customers:

This PCN affects Vectron SAW oscillator product built in the Hudson NH facility except the VS-720, SO-720 and VCO600A. Vectron introduce an internal process change starting Q1/07 to add a fine tuning frequency adjustment process to the product assembly. The change is an internal change only with no effect to the customer's application for product form, fit or function and therefore is being communicated for notification only.

The process change will reduce the pull curve variability by using the fine tuning process to adjust the device's center frequency of the SAW resonator and thus more easily bring oscillators within the product frequency tolerance limits. The fine tuning process involves an additive vacuum vapor deposition of a tuning material (typically gold) through a mask on the SAW transducer to lower its frequency. This is a standard process utilized on Vectron's Bulk Acoustic Wave (BAW) crystal oscillators - a technique widely used in the crystal oscillator industry. Vectron's internal qualification testing (electrical characterization, phase noise/jitter testing and accelerated life testing) has shown no effect to long-term reliability of the product assembled with and without fine tuning. The fine tune process will greatly reduce the current lot to lot variability of the output frequency versus control voltage distribution of our VCSO products.

Vectron is starting the fine tuning process with the VS-700 series in Q107 and will gradually phase-in the fine tuning process across various SAW oscillator families (both single output and dual output) between Q107 and Q307. Each product family is characterized before implementing the fine tuning process change.

This PCN is being sent as a notification only. If you need any additional information regarding this change, please contact your VI Marketing & Sales Representative or contact:

Mr. Paul Taylor
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Mr. Joe Beauchemin
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CUSTOMER NOTIFICATION OF PROPOSED PRODUCT/PROCESS CHANGE

CPN Number: VI-CN-061127 VI Location Requesting
 Change:
 Date: May 31, 2006 MHS NBH TFT PDG HUD
 Customer Approval: Required: _____ Information Only X

Product Code(s)/Families: SAW-based VCSO oscillator product families manufactured by VI:
 VS-500, VS-550, VS-700, VS-750, VS-751

Part Numbers: various

Project/Application: various

Customer (s)/Location(s): _____
 Description of Change: Fine tuning of the SAW resonator utilizing an additive (using Au) vapor deposition process.

Effects of Change to:

Appearance: No change

Product Identification: None.

Test Specification: None.

Performance Parameters: None.

Reliability: None. Vectron's qualification tests have shown no effect on long-term reliability for tuned oscillators

Sample Availability Date: N/A

Estimated Shipment Date: Production ramp-up starting in 1Q2007

Requested Customer Response Date: N/A

Product Manager: P. Taylor Tel.: 603-577-3005 Fax.: 603-598-0075

Respond to: J. Beauchemin Tel.: 603-577-6811 Fax.: 603-577-6876

CPN No.: VI-CN-061227	Change Description Fine tuning of SAW Oscillators	Issue: 1	Date: 12/27/06
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