PRODUCT / PROCESS CHANGE NOTIFICATION

Notification Date: 08/12/08 **Projected Completion Date: 08/12/08** **PCN Number : 10147**

Product Identification (Including Customer P/N):
MCO Series CMOS Clock Oscillators

Detailed Description of Changes:
The MCO series is being discontinued as a standard oscillator family.

Reason for Changes:
This product family uses old metal-gate CMOS technology. It is becoming increasingly difficult to deal with supply chain issues for obtaining some of the semiconductor dice used in this product family. For 5 V applications, the MHO+ series is a newer alternative that offers better performance.

Projected Timing of Change and Implementation Date:
Effective immediately, new orders for MCO series oscillators will not be accepted.

Anticipated Impact on Quality and Reliability:
The MHO+ uses a newer technology (High Speed CMOS) which is less expensive and more readily available than the older metal-gate CMOS technology. Performance of the MHO+ is better than that of the MCO for 5 V applications. (No alternative is offered for higher supply voltage applications.)

Qualification Plan (if applicable):
N / A - M-tron has had the MHO+ series as an active and preferred product offering for a number of years.

Last Time Buy Date:
N / A

Last Time Delivery Date and Comments (if applicable):
N / A

Originated By:	D. C. Olson	**Date:** 08/06/08
MtronPTI Engineering:	Joe Doyle	**Date:** 8/6/2008
MtronPTI Apps. Eng'r.:	Bill Lannewein	**Date:** 8/7/2008
MtronPTI Sales or Designate:	Dick Thompson	**Date:** 8/8/2008
MtronPTI Operations:	G Anderson	**Date:** 8/12/2008
MtronPTI Quality Assurance:	JKocak	**Date:** 8/7/2008

CUSTOMER ACKNOWLEDGMENT:
This PCN will be considered acceptable and become effective on the date shown if no feedback is received within 30 days of notification denoted above.

PCN APPROVED: **Signature:** _____

YES: [ ] **NO:** [ ] **Title:** _____ **Date:** _____

COMMENTS:

Please return this signed document to:
MtronPTI, 100 Douglas Ave., Yankton, SD, 57078 or email to pcn@mtronpti.com