



# ECS Product/Process Change Notice (PCN)

PCN # 05158-ZTA/ZTT

Notification Date: May 15, 2008

Dear Business Partner,

ECS Inc. is aware of the vital importance of notifying its' valuable customer base of any Product or Process changes that may affect a components performance within a customer's circuit design. This notice is for your information and concurrence. It is our intent and desire to issue these notifications in a timely manner as to not affect the work flow of our customer base or incite any undue hardship.

## Product Identification

**ZTA/ZTT Series Ceramic Resonator**  
Thru Hole resonators, 5.00 to 6.00 MHz MT version

## Description and Purpose of Change:

**Description:** 5.00 to 6.00 MHz MT version will be converted to MG series which is the lower profile version 7.5 mm Max. vs. 10.0 mm Max.

**Purpose:** Improve production throughput, production yields, product integrity and offer our customers an improved lower height package.

**Manufacturing Location Affected:** All Assembly Sites

**Reliability Summary (If applicable):** ECS, Inc. has completed all characterization of the process change and product performance. Tests consisted of drop shock, vibration, thermal cycling and reflow profile verification (260 Degrees C for 10s).

**Part Number Change:** This is not a Critical Change to the product but does require a P/N change for the MT series from 5.00 to 6.00 MHz.

**Cost Impact:** None

**Last Time Buy Date/Delivery Date:** N/A

- Critical (Change affects fit, form and functionality of the component. Would require sample submission)
- Non-Critical (Change does not affect fit, form or functionality of the component. Does not require sample submission.)

The following personnel are authorized to issue such notices.

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Brad Slatten	Director of Quality Assurance	<a href="mailto:brads@ecsxtal.com">brads@ecsxtal.com</a>	Corporate Headquarters: Olathe, Kansas USA

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