



ECS Product/Process Change Notice (PCN)

PCN # 111507-23A

Notification Date: **November 20, 2007**

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. 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.

PRELIMINARY REPORT NOTICE

FINAL REPORT NOTICE

Product Identification

ECX-64A (-23A, -23AN, -23A-GN, -23A-EN, -23A-AHN, -23A-GM, -23A-F Part Number Suffix)
(3.5x6.0x1.1mm SMD 2 Pad Glass Sealed (Epoxy) Ceramic Package Quartz Crystal)
All Frequencies

Description and Purpose of Change:

Description: Convert to a Seam-Sealed sealing process. Eliminate the all ceramic enclosure. Package will now be ceramic base with metal cover.

Purpose: Improve production throughput, production yields, product integrity, RoHS compliance without exemptions, shorter lead-times

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 and will not require a part number change

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.

Part Number Change:

This is not a Critical Part Change to the product and will not require a part number revision

E C S , I n c . I n t e r n a t i o n a l
1 1 0 5 S o u t h R i d g e v i e w R o a d
1 - 8 0 0 - 2 3 7 - 1 0 4 1 , F a x : 9 1 3 - 7 8 2 - 6 9 9 1
w w w . e c s x t a l . c o m

ECS, Inc. reserves the right to ship either version manufactured after the process change effective date until the inventory of the original version has been depleted.

The following personnel are authorized to issue such notices: Please forward your inquiries specific to this matter to one or more of the below

Dan Kelly Director of Component Engineering dank@ecsxtal.com Corporate Headquarters: Olathe, Kansas USA
Brad Slatten Director of Quality Assurance brads@ecsxtal.com Corporate Headquarters: Olathe, Kansas USA

Facsimile Number for both: 913-782-6991

ECS will be responsible for cost incurred for the lack of or omissions within of a PCN up to the costs of the component only.

#####

E C S , I n c . I n t e r n a t i o n a l
1 1 0 5 S o u t h R i d g e v i e w R o a d
1 - 8 0 0 - 2 3 7 - 1 0 4 1 , F a x : 9 1 3 - 7 8 2 - 6 9 9 1
w w w . e c s x t a l . c o m