

# CUSTOMER ADVISORY

## ADV1601

### Ink to Laser Mark Change for RQFP Packages

#### Change Description:

This advisory is to notify customers of a change in the component marking process as described in Table 1 below:

**Table 1**

Affected Package and Products	Change From	Change To
Package: • RQFP-240 & 208 Pins  Product Families: • FLEX® 10K • MAX® 7000 • MAX® 9000 • APEX® 20K	Ink Marking on the package  	Laser Marking on the package  

Note:

See [Appendix 1](#) for a detailed list of the affected Ordering Part Numbers (OPN)

## Recommended Action

Customers are being notified to take note of this marking process change. The component mark content and layout will remain the same. The change has no impact to the form, fit, function, quality, and reliability of the devices. There is no anticipated impact to the customer's board assembly process.

## Reason for Change:

The manufacturing site will convert the RQFP package line to a laser marking process and will permanently shut down the ink marking equipment.

## Products Affected:

This change affects RQFP-240 & 208 Pins packages for the following product families:

- FLEX 10K
- MAX 7000
- MAX 9000
- APEX 20K

See [Appendix 1](#) for detailed list of affected Ordering Part Numbers (OPNs).

## Product Transition Dates:

Table 2

<i>Milestone</i>	<i>Date</i>
Earliest change implementation date	February, 2016 Datecode 1607

Altera will start implementing the new laser marking process on the date indicated above.

The ink-marked products will continue to be shipped until existing Finished Goods Inventory is depleted.

## Contact

For more information, please contact your nearest sales representative or contact Technical Support by submitting a Service Request at Altera's [mySupport](#) website.

## Customer Notifications Subscription

Customers that have subscribed to Altera's customer notification mailing list will receive updates automatically via email.

If you would like to receive customer notifications by email, please subscribe to our customer notification mailing list at <https://www.altera.com/subscriptions/email/signup/eml-index.jsp>

## Revision History

Date	Rev	Description
02/17/16	1.0.0	Initial Release

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## Appendix 1 Affected Ordering Part Numbers (OPN)

Affected Ordering Part Numbers (OPN)		
EP20K200RC240-1X	EPF10K30RC208-4	EPF10K70RC240-2
EP20K200RC240-2X	EPF10K30RC208-4N	EPF10K70RC240-2N
EP20K200RI240-2	EPF10K30RC240-3	EPF10K70RC240-3
EPF10K100ARC240-1	EPF10K30RC240-3N	EPF10K70RC240-3GZ
EPF10K100ARC240-1N	EPF10K30RC240-4	EPF10K70RC240-3N
EPF10K100ARC240-2	EPF10K30RC240-4N	EPF10K70RC240-4
EPF10K100ARC240-2N	EPF10K30RI208-4	EPF10K70RC240-4N
EPF10K100ARC240-3	EPF10K30RI208-4N	EPM7256ERC208-12
EPF10K100ARC240-3N	EPF10K30RI240-4	EPM7256ERC208-12PY
EPF10K100ARI240-3	EPF10K30RI240-4N	EPM7256ERC208-15
EPF10K100ARI240-3N	EPF10K40RC208-3	EPM7256ERC208-20
EPF10K200SRC240-1	EPF10K40RC208-4	EPM7256ERC208-20YY
EPF10K200SRC240-1N	EPF10K40RC240-3	EPM7256ERI208-20
EPF10K200SRC240-1X	EPF10K40RC240-4	EPM7256SRC208-10
EPF10K200SRC240-2	EPF10K40RC240-4N	EPM7256SRC208-10N
EPF10K200SRC240-2X	EPF10K50RC240-3	EPM7256SRC208-15
EPF10K200SRC240-3	EPF10K50RC240-3N	EPM7256SRC208-15N
EPF10K200SRC240-3B	EPF10K50RC240-4	EPM7256SRC208-7
EPF10K200SRC240-3N	EPF10K50RC240-4N	EPM7256SRC208-7N
EPF10K20RC208-3	EPF10K50RI240-4	EPM7256SRI208-10
EPF10K20RC208-3N	EPF10K50RI240-4N	EPM7256SRI208-10N
EPF10K20RC208-4	EPF10K50VRC240-1	EPM9560ARC208-10
EPF10K20RC208-4N	EPF10K50VRC240-1N	EPM9560ARC208-10N
EPF10K20RC240-3	EPF10K50VRC240-2	EPM9560ARC240-10
EPF10K20RC240-3N	EPF10K50VRC240-2N	EPM9560ARC240-10N
EPF10K20RC240-4	EPF10K50VRC240-3	EPM9560ARI208-10
EPF10K20RC240-4N	EPF10K50VRC240-3N	EPM9560ARI240-10
EPF10K20RI208-4	EPF10K50VRC240-4	EPM9560RC240-15
EPF10K20RI208-4N	EPF10K50VRC240-4N	EPM9560RC240-15YY
EPF10K20RI240-4	EPF10K50VRI240-3	EPM9560RC240-20
EPF10K20RI240-4N	EPF10K50VRI240-3N	EPM9560RI240-20
EPF10K30RC208-3	EPF10K50VRI240-4	
EPF10K30RC208-3N	EPF10K50VRI240-4N	

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