

USB Type-C ENGINEERING CHANGE NOTICE

Title: USB 2.0 Type-C plug EMC spring alternative

Applied to: USB Type-C Specification Release 1.0, August 11, 2014

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| Brief description of the functional changes: |
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| This ECN allows the full featured plug EMC spring configuration in the USB 2.0 version of the Type-C plug. |
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| Benefits as a result of the changes: |
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| Reduces tooling costs by allowing common parts between the two versions of plugs. The full featured EMC plug springs may be used in the USB 2.0 version, but the USB 2.0 version EMC plug springs are not suitable for the full feature version. |
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| An assessment of the impact to the existing revision and systems that currently conform to the USB specification: |
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| No impact to compliant product. Allows configurations currently using the full feature EMC springs in the USB 2.0 version to be compliant with the specification regarding this feature. |
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| An analysis of the hardware implications: |
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| N/A |
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| An analysis of the software implications: |
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| N/A |
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| An analysis of the compliance testing implications: |
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| Compliance specification to note that the USB 2.0 Type-C plug may have either EMC spring configuration. |
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Actual Change

(a). Section 3.2.1, Page 39

From Text:

- Unlike the USB Full-Featured Type-C plug, the internal EMC springs may be formed from the same strip as the signal, power, and ground contacts. The internal EMC springs contact the inner surface of the plug shell and mate with the receptacle EMC pads when the plug is seated in the receptacle.

To Text:

- Unlike the USB Full-Featured Type-C plug, the internal EMC springs may be formed from the same strip as the signal, power, and ground contacts. The internal EMC springs contact the inner surface of the plug shell and mate with the receptacle EMC pads when the plug is seated in the receptacle. Alternately, the USB 2.0 Type-C plug may use the same EMC spring configuration as defined for the USB Full-Featured Type-C plug. The USB 2.0 Type-C plug four EMC spring locations are defined in Figure 3-9. The alternate configuration using the six spring locations is defined in Figure 3-1. Also refer to the reference designs in 3.2.2.3 for further clarification.