



800 E. Northwest Highway Des Plaines, IL 60016

## Product/Process Change Notice (PCN)

<b>PCN#:</b> LFPCN 41425 <b>Date:</b> 16 <sup>th</sup> Mar 2022 <b>Product Identification:</b> Red Phosphorus Free Fan-out to TE400 Series Fuses <b>Implementation Date for Change:</b> 15 <sup>th</sup> May 2022	<b>Contact Information</b> <b>Name:</b> Daniel Wang <b>Title:</b> Director- Product Management-OverCurrent <b>Phone #:</b> +65 68859198 <b>Fax#:</b> <b>E-mail:</b> Dwang@littelfuse.com
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<b>Category of Change:</b> <input type="checkbox"/> Assembly Process <input type="checkbox"/> Data Sheet <input type="checkbox"/> Technology <input type="checkbox"/> Discontinuance/Obsolescence <input type="checkbox"/> Equipment <input type="checkbox"/> Manufacturing Site <input type="checkbox"/> Raw Material <input type="checkbox"/> Testing <input type="checkbox"/> Fabrication Process <input checked="" type="checkbox"/> Other: _____	<b>Description of Change:</b> We fan-out the conversion of TE400 Series fuses from using Red Phosphorus based flame retardant to Red Phosphorus Free flame retardant .
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<b>Important Dates:</b>	
<input checked="" type="checkbox"/> Qualification Samples Available: 16 <sup>th</sup> March 2022	<input type="checkbox"/> Last Time Buy: 15 <sup>th</sup> Apr 2022
<input checked="" type="checkbox"/> Final Qualification Data Available: Upon request	
<input checked="" type="checkbox"/> Date of Final Product Shipment: Running change to Red-P free fuses in mass production on 15 <sup>th</sup> May 2022	

<b>Method of Distinguishing Changed Product</b>
<input type="checkbox"/> Product Mark,
<input type="checkbox"/> Date Code,
<input checked="" type="checkbox"/> Other, Color of Cap housing - Existing Red to Black

<b>Demonstrated or Anticipated Impact on Form, Fit, Function or Reliability:</b>
There are no changes to Form, Fit and Function.

<b>LF Qualification Plan/Results:</b>
Upon Request

**Customer Acknowledgement of Receipt:** Littelfuse requests you acknowledge receipt of this PCN. In your acknowledgement, you can grant approval or request additional information. Littelfuse will assume the change is acceptable if no acknowledgement is received within 30 days of this notice. Lack of any additional response within 90 days of PCN issuance further constitutes acceptance of the change.

To : Valued Customer  
From : Littelfuse Product Management

Subject : **LFPFN 41425: Conversion to Red Phosphorus-Free (Red-P free) for TE400 series fuses**

This is a 60-day PCN.

This is to communicate that we will fan-out the implementation of Red Phosphorus-free (Red-P free) conversion on our TE 400 Fuse Series.

Below are the details of the change.

1. Fuse Color Change from “RED” to “BLACK”.



2. Fuse Changes on the agency approval
  - a. From **VDE** to **TUV** so that IEC certification is not impacted
  - b. **PSE\_JET** to **PSE\_TUV**

Note: No changes on the CCC and UL certificate.

3. Fuse Marking & Fuse Label.

Before		After (Red P Free)	

In terms of electrical characteristics of the fuses, electrical performance of both the existing fuses and the Red-P free version are similar.

The Red-P free version of the TE400 will have the same existing datasheet as the existing TE400 series.

There will be no changes in the part numbering meaning that the part numbers will be the same.

**Date of implementation**

This will be a running change in Littelfuse mass production from 15<sup>th</sup> May 2022 onwards.

Last time buy will be 15<sup>th</sup> April 2022 for existing version.

**Affected Part Numbers**

40005000440	40012000810
40005000810	40012500000
40008000000	40012500075
40008000075	40012500440
40008000440	40012500810
40008000810	40013150000
40011000000	40013150075
40011000075	40013150440
40011000440	40013150810
40011000810	40014000000
40011250000	40014000075
40011250075	40014000440
40011250440	40014000810
40011250810	40015000000
40011600000	40015000075
40011600075	40015000440
40011600440	40015000810
40011600810	40016300000
40012000000	40016300075
40012000075	40016300440
40012000440	40016300810

Please let us know if you have further queries.

Best regards,  
Daniel Wang  
Director, Global Product Management  
Littelfuse Philippines Inc,  
[DWang@littelfuse.com](mailto:DWang@littelfuse.com)

