



800 E. Northwest Highway Des Plaines, IL 60016

Product/Process Change Notice (PCN)

PCN#: LFPCN 010620 **Date:** 1st June, 2020

Contact Information

Product Identification:
Red Phosphorus Free Fan-out to other
TE5 Fuses
Implementation Date for Change:
June 01, 2020

Name: Daniel Wang
Title: Director- Product Management-OverCurrent
Phone #: +65 68859198
Fax#:
E-mail: Dwang@littelfuse.com

Category of Change:

- Assembly Process
- Data Sheet
- Technology
- Discontinuance/Obsolescence
- Equipment
- Manufacturing Site
- Raw Material
- Testing
- Fabrication Process
- Other: _____

Description of Change:

3We fan-out the conversion of our other TE5 fuses from using Red Phosphorus based flame retardant to Red Phosphorus Free flame retardant on below Fuse Series.

1. 389 Fuse Series	7. 398 Fuse Series
2. 396 Fuse Series	8. 390 Fuse Series
3. 385 Fuse Series	
4. 391 Fuse Series	
5. 395 Fuse Series	
6. 397 Fuse Series	

Important Dates:

- Qualification Samples Available: 1st June, 2020
- Final Qualification Data Available: Upon request
- Date of Final Product Shipment: Once the stock is depleted
- Last Time Buy: Running change on 30th June

Method of Distinguishing Changed Product

- Product Mark,
- Date Code,
- Other, Color of Cap housing - Existing Red to Black

Demonstrated or Anticipated Impact on Form, Fit, Function or Reliability:

Increase in max operating temperature from +85C to +125C. Other than this, there are no changes to Form, Fit and Function.

LF Qualification Plan/Results:

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.

1st June, 2020

Re : 389 Fuse Series, 396 Fuse Series, 385 Fuse Series, 391 Fuse Series, 395 Fuse Series, 397 Fuse Series, 398 Fuse Series, & 390 Fuse Series going Red Phosphorus Free.

Dear Valued Customer,

With regards to the above reference, this is a 30-day PCN starting 1st June. Littelfuse will be expanding the roll-out of the conversion of the other TE5 fuse series fuses to Red Phosphorus free.

Affected Fuse series are as follows,

- 389, 396, 385, 391, 395, 397, 398, 390

The same existing part number will be used/active. This will be a running change in production on 30th June 2020.

There are no changes to the electrical characteristics and performance as well as the physical dimensions as listed on the datasheet.

The only change being the Operating Temperature which will increase from the present “-40degC to 85degC” to “**-40degC to 125degC**”. The type of resin (polyamide) will remain unchanged.

For distinction between the existing and future Red-Phosphorus fuses, the fuse cap and housing color will change from existing “**Red-Brown**” to “**Black**”.

See images below for illustrative purposes.



Existing



New – Red
Phosphorous Free

Affected series and part numbers as stated below,

Series	385	389	390	391	395	396	397	398
Part Numbers	38503500000	38900600000	39000320000	39101250000	39501000440	39600500000	39703500440	39801250000
	38503500440			39102000000	39501250000	39600500310	39708000000	39803150000
	38505000000			39102500000	39501250440	39600500440	39708000440	39804000000
	38505000440			39103150000	39501600000	39600630000	39711250000	39805000000
	38511000000			39104000000	39501600440	39600630440	39711500000	39806300000
	38511000440				39502000000	39600800000	39711500440	39811000000
	38511250000				39502000440	39600800440		39811600000
	38511250440				39502500000	39601000000		39812000000
	38511500000				39502500440	39601000440		39812500000
	38511500440				39503150000	39601250000		39813150000
	38900600000				39503150440	39601250440		39814000000
					39504000000	39601600000		
					39504000440	39602000000		
					39505000000	39602000440		
					39505000440	39602500000		
					39506300000	39602500440		
					39506300440	39603150000		
					39508000440	39603150440		
					39511000000	3960315P000		
					39511000440	39604000000		
					39511250000	39604000440		
					39511250440	39605000000		
					39511600000	39605000440		
					39511600440	39605000840		
					39512000000	39606300000		
					39512000440	39606300440		
					39512500000	39608000000		
					39512500440	39608000440		
					39513150000	39611000000		
					39513150440	39611000440		
					39514000000	39611250000		
					39514000440	39611250440		
					39515000000	39611600000		
					39515000440	39611600440		
					39516300000	39612000000		
					39516300440	39612000440		
						39612500000		
						39612500440		
						39613000000		
						39613150000		
						39613150440		
						39614000000		
						39614000440		
						39615000000		
						39615000440		
						39616300000		
						39616300440		

Should you have any further questions and concerns, don't hesitate to contact us.

Best regards,
Daniel Wang
Global Product Management, EBU - OverCurrent
dwang@littelfuse.com