

800 E. Northwest Highway Des Plaines, IL 60016

## Product/Process Change Notice (PCN)

PCN#: LFPCN 010620 Date: 1st June	, 2020	Contact Information					
Product Identification:		Name: Daniel Wang					
Red Phosphorus Free Fan-out to other		Title: Director- Product Management-OverCurrent					
TE5 Fuses		Phone #: +65 68859198					
Implementation Date for Change:		Fax#:					
June 01, 2020		E-mail: Dwang@littelfuse.com					
Category of Change:	Descri	ription of Change:					
☐ Assembly Process	3We fa	fan-out the conversion of our other TE5 fuses from using Red Phosphorus					
☐ Data Sheet	based flame retardant to Red Phosphorus Free flame retardant on below Fuse						
☐ Technology	Series.						
☐ Discontinuance/Obsolescence	1. 389	9 Fuse Series 7. 398 Fuse Series					
☐ Equipment	2. 396	S Fuse Series 8. 390 Fuse Series					
Manufacturing Site	3. 385	5 Fuse Series					
Raw Material	4. 391	I Fuse Series					
Testing		5 Fuse Series					
Fabrication Process		7 Fuse Series					
☑ Other:	0. 391	- Luse Selles					
Important Dates:							
Qualification Samples Available: 1st							
☐ Final Qualification Data Available: Up	oon requ	quest					
□ Date of Final Product Shipment: Once     □ O	e the st	stock is depleted					
Method of Distinguishing Changed Pro	oduct						
☐ Product Mark,							
☐ Date Code,							
Other, Color of Cap housing - Existing	g Red to	o Black					
Demonstrated or Anticipated Impact o	n Form,	n, Fit, Function or Reliability:					
Increase in max operating temperature from Function.	om +850	5C to +125C. Other than this, there are no changes to Form, Fit and					
LF Qualification Plan/Results:							
Upon Request							
Customer Acknowledgement of Receip	ot: Littelf	elfuse requests you acknowledge receipt of this PCN. In your acknowledgement, you can					
grant approval or request additional information. Li	ttelfuse wi	will assume the change is acceptable if no acknowledgement is received within 30 days					
of this notice. Lack of any additional response with	in 90 days	ys 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 1<sup>st</sup> 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

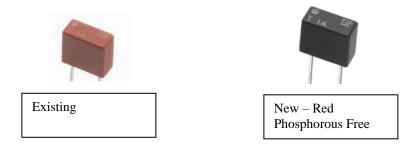
The same existing part number will be used/active. This will be a running change in production on 30<sup>th</sup> June 2020.

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.



Affected series and part numbers as stated below,

	<del>                                     </del>	Т	-				
Series	385	389	390	391	395	396	397
Part Numbers	38503500000	38900600000	39000320000	39101250000	39501000440	39600500000	39703500440
	38503500440			39102000000	39501250000	39600500310	39708000000
	38505000000			39102500000	39501250440	39600500440	39708000440
	38505000440			39103150000	39501600000	39600630000	39711250000
	38511000000			39104000000	39501600440	39600630440	39711500000
	38511000440				39502000000	39600800000	39711500440
	38511250000				39502000440	39600800440	
	38511250440				39502500000	39601000000	
	38511500000				39502500440	39601000440	
	38511500440				39503150000	39601250000	
	38900600000				39503150440	39601250440	
					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
<a href="mailto:dwang@littelfuse.com">dwang@littelfuse.com</a>