



800 E. Northwest Highway Des Plaines, IL 60016

## Product/Process Change Notice (PCN)

PCN#: 15112013 Date: 15<sup>th</sup> November 2013

### Product Identification:

Nano 154, 157, 451 and 453 Series

### Implementation Date for Change:

15<sup>th</sup> February, 2014

### Contact Information

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### Category of Change:

- ☐ Assembly Process
- ☐ Data Sheet
- ☐ Technology
- ☐ Discontinuance/Obsolescence
- ☐ Equipment
- ☐ Manufacturing Site
- ☒ Raw Material
- ☐ Testing
- ☐ Fabrication Process
- ☐ Other: \_\_\_\_\_

### Description of Change:

- Change of wire element material for ratings 375mA through 1A (inclusive) of the abovementioned series.

### Important Dates:

- ☒ Qualification Samples Available: 15<sup>th</sup> November, 2013
- ☒ Final Qualification Data Available: 15<sup>th</sup> November, 2013
- ☒ Date of Final Product Shipment: 15<sup>th</sup> February, 2014

☐ Last Time Buy: \_\_\_\_\_

### Method of Distinguishing Changed Product

- ☐ Product Mark, \_\_\_\_\_
- ☒ Date Code, 02/15/14
- ☐ Other, \_\_\_\_\_

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

- Different/Changed fuse resistance and I<sup>2</sup>t

### LF Qualification Plan/Results:

Validation testing including electrical performance test and environmental testing; test results and report available 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.

15<sup>th</sup> November 2013

To: Valued Customers

From: Littelfuse Product Management

Subject: Change of Wire element of 7 current ratings of 451, 453, 154 and 157 Square Nano Fast-Acting series

This is a 90 days PCN.

Based on the above reference, due to consolidation of wire suppliers, we will be implementing a change of wire material of the following 7 ratings of our 451,0453,154 and 157 Square Nano Fast-Acting fuse series :

375mA, 400mA, 500mA, 630mA, 750mA, 800mA, 1A

Due to the change of wires, the corresponding characteristics of the affected ratings will be changed as shown in the following table:

Ampere Rating	Nominal Cold Resistance ( $\Omega$ )		Nominal Melting $I^2t$ ( $A^2sec$ )	
	FROM	TO	FROM	TO
375mA	0.6100	0.4541	0.0425	0.0442
400mA	0.5600	0.4233	0.0484	0.0551
500mA	0.4200	0.3046	0.0795	0.0824
630mA	0.3050	0.2022	0.143	0.1381
750mA	0.2450	0.1444	0.185	0.2143
800mA	0.2120	0.1355	0.271	0.2654
1A	0.1530	0.0780	0.459	0.6029

Please see separate attachment for the list of the complete catalog no. of the affected parts.

### Timeframe

The effective date of this change is 15<sup>th</sup> February 2014. This would be a running change.

Samples are available upon request. Should you have queries relative to this change, please contact your local Littelfuse Sales Office or Product Management Team to help you.

Best regards,  
Daniel Wang  
Global Product Management - Director  
Littelfuse Inc.

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