



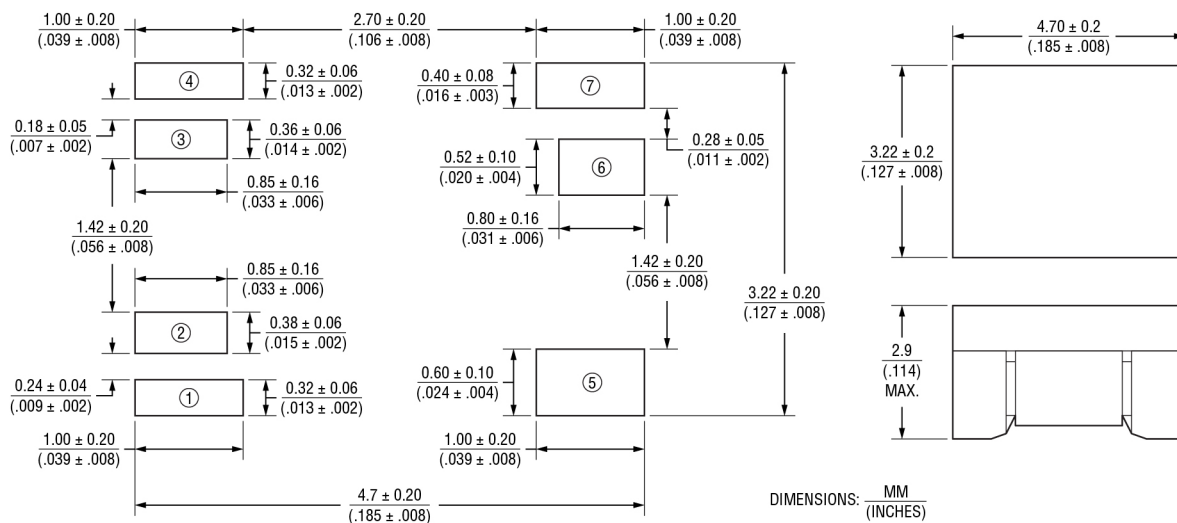
## Bourns® Model SM453229 and SM453230 Series Chip LAN Transformers *Design and Manufacturing Process Change*

Riverside, California – August 26, 2021 – Effective November 18, 2021, Bourns is changing the core design and manufacturing process for the [Model SM453229 and SM453230 Series Chip LAN Transformers](#) to improve transformer performance and production efficiency. The modified core will include wire grooves on four of the seven terminal pads that can guide the wire leads to the proper position. The core size will be changed slightly.

In addition, the manufacturing process will be changed to use winding machines with more spindles to increase the production rate. The transformer winding pattern will be modified as a result of this process change.

The recommended layout remains unchanged. The modified transformer can be applied to the existing pad layout.

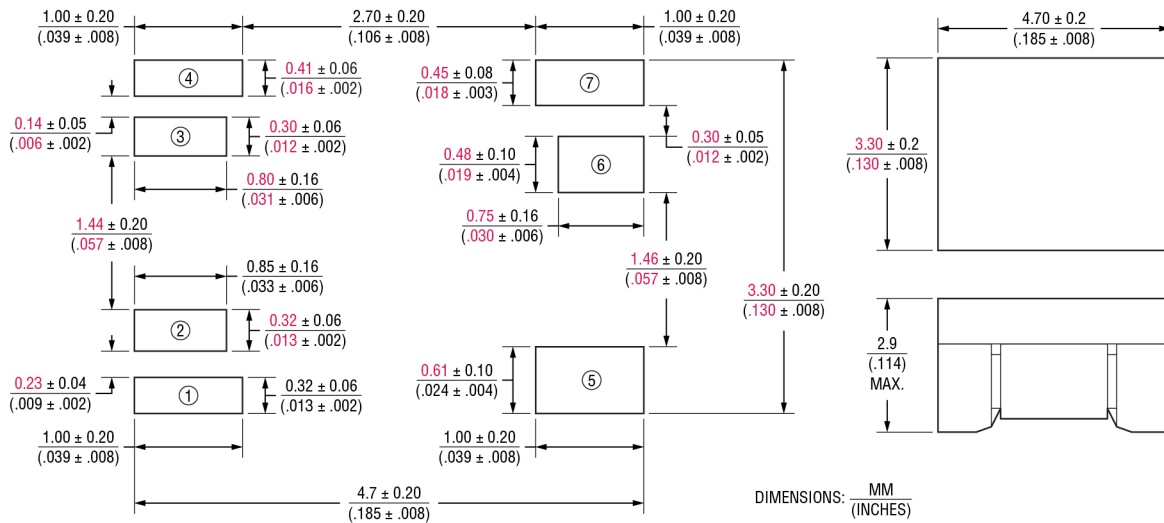
### Terminal Dimensions of Current Transformer (Top view):



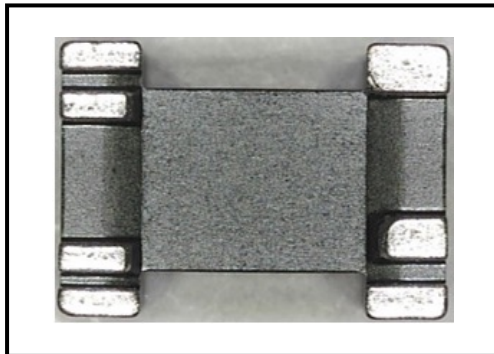
Users should verify that the described changes will not impact the performance of the product in their specific applications.

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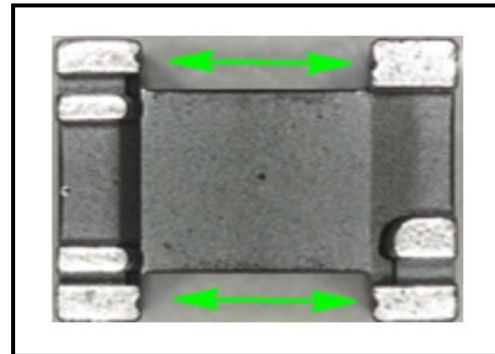
**Terminal Dimensions of Revised Transformer (red) (Top view):**



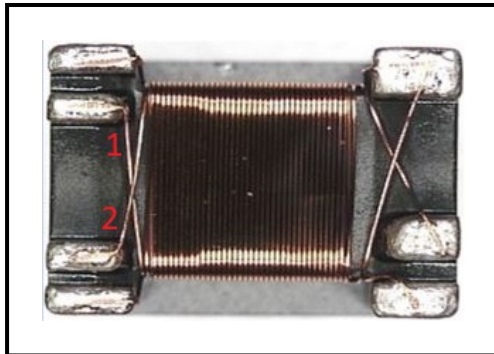
**Bottom View of Current Core**  
Without wire grooves



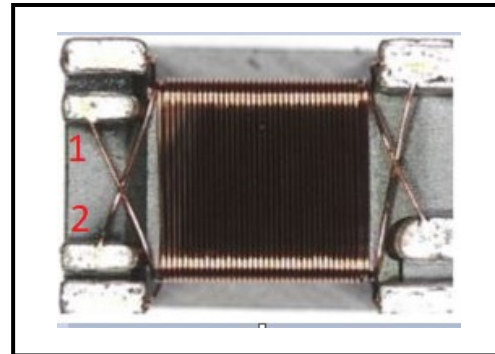
**Bottom View of Revised Core**  
With wire grooves



**Bottom View of Current Transformer**  
Wire lead 1 and 2 entry to terminal pad at end-section



**Bottom View of Revised Transformer**  
Wire lead 1 and 2 entry to terminal pad at approximate mid-section





Affected Part Numbers	
SM453229-231N7Y	SM453230-121N7YP
SM453229-381N7Y	SM453230-181N7Y
SM453229A-381N7Y	SM453230-231N7Y
SM453230-121N7Y	SM453230-231N7YP

The form and fit of the transformer will change. The function remains the same. The quality and reliability of the component should be improved.

New transformer samples are available upon request.

**Implementation dates are as follows:**

Date that products in existing design will cease: **November 18, 2021**

Date that deliveries of products in modified design will begin: **November 19, 2021**

First date code using the above changes: **2146**

*If you have any questions or need additional information, please feel free to [contact Customer Service/Inside Sales](#).*