



PRODUCT CHANGE NOTIFICATION

MAGNETICS

Bourns® Model SM45002EL Transformer

Additional Source of Supply for Inductor Core

Riverside, California – January 31, 2023 – In order to support our fast-growing demand, enhance continuity of supply and provide maximum flexibility to customers, effective March 15, 2023, Bourns will begin using an additional ferrite core material supplier for the Model SM45002EL Transformer. The additional supplier has been qualified and included in the Bourns Authorized Vendor List. The affected part number is shown below.

Affected Part Number

SM45002EL

The material characteristics of the core from the additional supplier are compared to the characteristics of the core from the existing supplier in the following table:

Core Characteristics	Existing Source	New Additional Source
Initial Permeability	2300 ±25 %	2300 ±25 %
Saturation Flux Density (mT)	510	510
Curie Temperature (°C)	> 215	> 220

The use of the core from the additional supplier will not change the data sheet specifications for the Model SM45002EL Transformer. The form, fit, function, quality, and reliability of the inductor will not be affected by the core used. Traceability will be maintained through lot code and date code.

Samples built using cores from the additional inductor core supplier are available upon request. Bourns recommends that customers test the affected part number made with the new core in their specific applications for verification of satisfactory performance.

Implementation dates are as follows:

Date that deliveries of products manufactured using cores from both sources will begin: **March 15, 2023**

First date code using cores from both sources: **2311**

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

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

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