

Engineering Change Notification

R256 Microstepping Driver/Controller Heat Sink update

ECN No: 32699



Existing R256-RO



NEW R256-RO

Date of Notification	Change	Part Numbers Affected	
	<input type="checkbox"/> Major <input checked="" type="checkbox"/> Minor	R256-RO	R256-08RO
		R256-02RO	R256-09RO
		R256-07RO	R256-10RO

Notification Type

<input checked="" type="checkbox"/> Component Change	<input type="checkbox"/> Material Change	<input type="checkbox"/> Product to be obsolete	<input checked="" type="checkbox"/> Supplier Change
<input checked="" type="checkbox"/> Design Change	<input type="checkbox"/> Process Change	<input type="checkbox"/> Specification Change	<input type="checkbox"/> Other

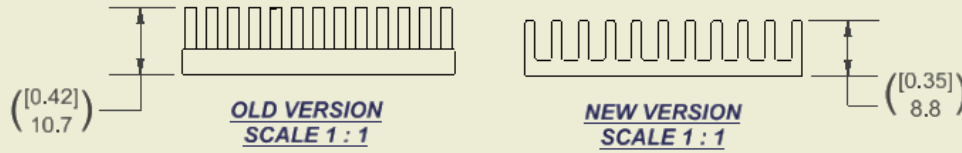
Notification Description

Summary of Changes

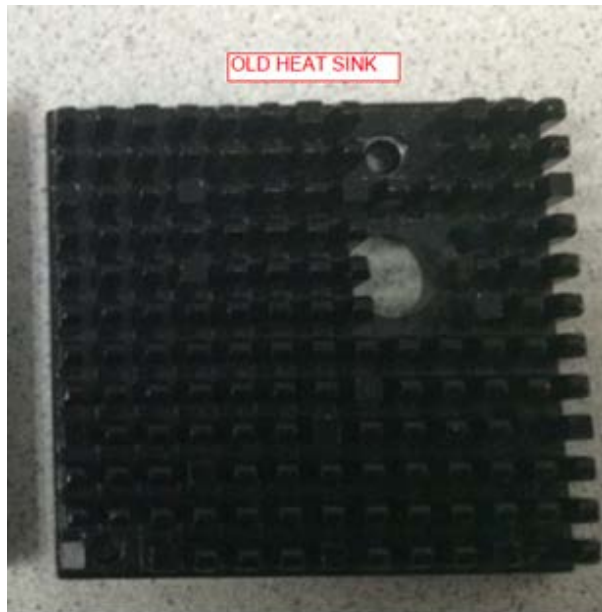
The existing tool has reached its end of life (EOL). Given the opportunity to open up a new tool to continue this product, a couple of changes are being implemented. This Product Change Letter describes the dimensional differences and shows the heat test to indicate no changes are made to heat dissipation.

Changes to Form, Fit, and Function

The height thickness is reduced from 0.41" (10.5mm) to 0.35" (8.8mm). The heat sink fins change as pictured below. All existing features still stay the same.



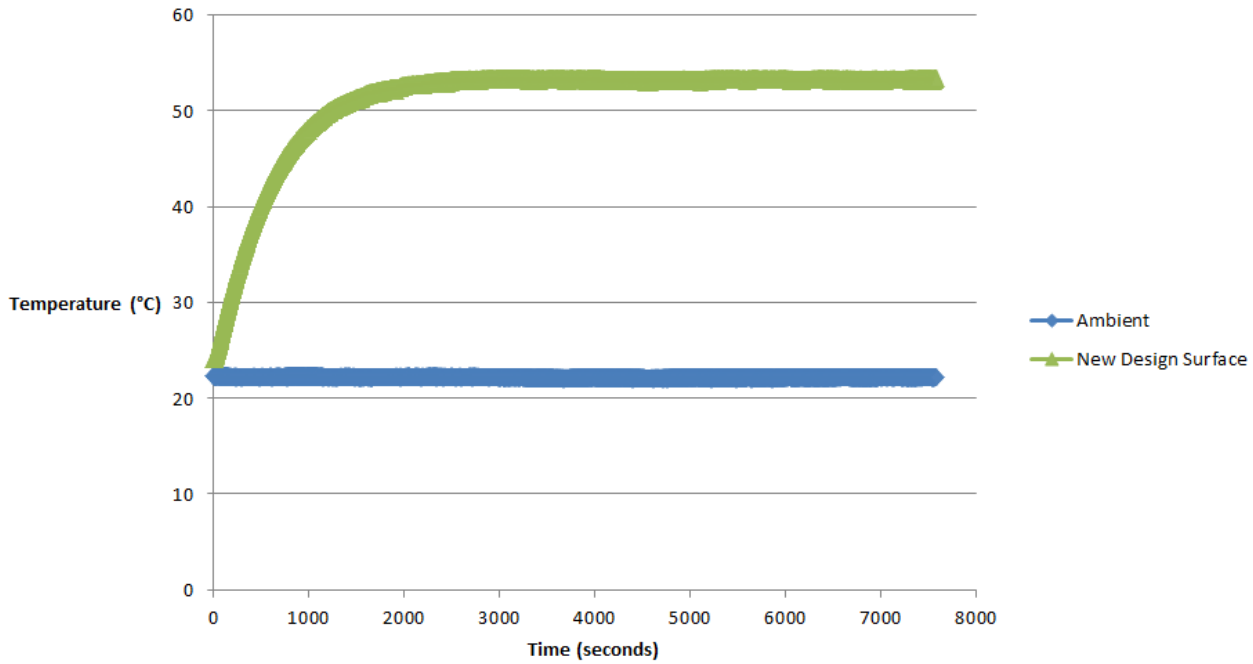
Visual Differences to the Heat sink



Performance Testing

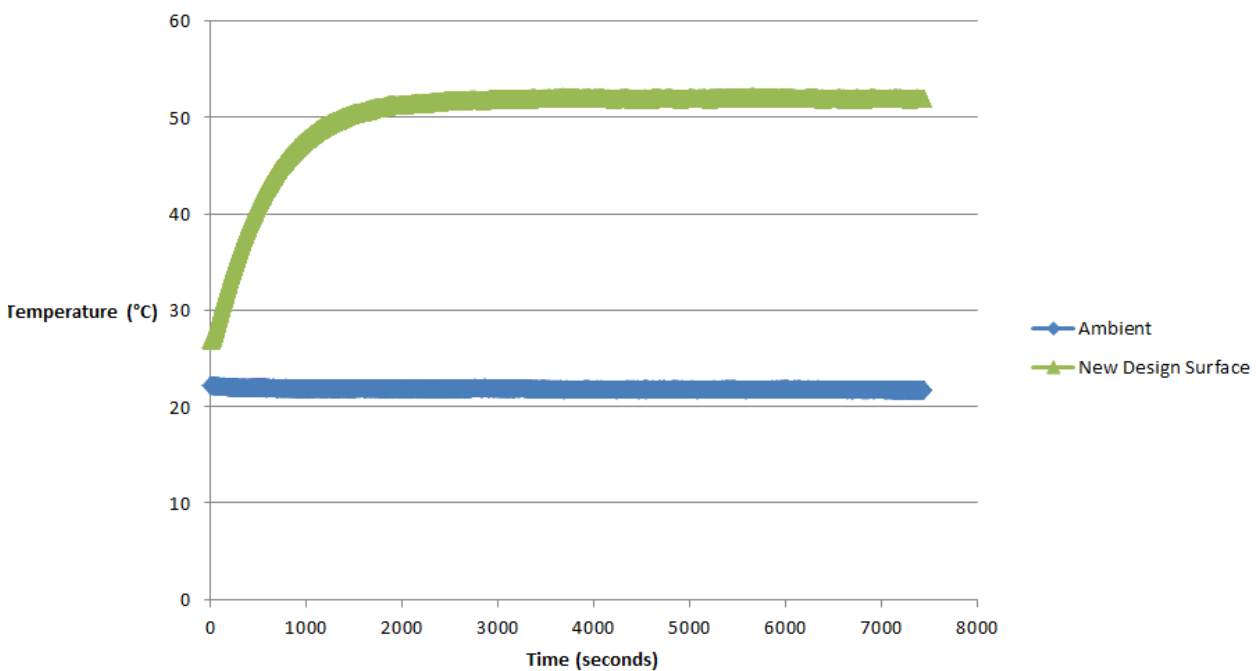
The old R256 heatsink was tested in an oven set to 53.39°C ambient temperature. The R256 was operating a standard NEMA 17 step motor. Below is the temperature rise over time:

Old Heat Sink Design(53.39°C Max/ Steady State)



The new R256 heatsink was also tested in an oven set to 52.61°C ambient temperature while operating the same NEMA 17 step motor as the above test. Below is the temperature rise over time:

New Heat Sink Design(52.61°C Steady State)



Conclusion

Both the old and the new heatsink possess the same heat dissipation and therefore will not pose any differences in performance when switching from the old design to the new design.

Effective Date

Implementation will begin on January 19, 2014. If you have any questions, please contact your sales account manager.