

# Ceramic Capacitor Product Division Update

**Date:** July 29, 2016

**Subject:** TDK Updates the Status of its Multilayer Ceramic Capacitor Product Division

**Dear Distribution Partner,**

Thank you for your business and continued interest in TDK’s ceramic capacitors. This letter is to update you on the current status of our Ceramic Capacitor Division with respect to our US Distribution portfolio. TDK has refined its MLCC product line for distribution to focus on leading edge and automotive grade products. TDK began this process in April 2016 by announcing many commercial part numbers as [End of Life](#) with associated Last Time Buy and EOL Dates.

In addition to obsoleting these part numbers, TDK is advancing its efforts by designating product life cycle status. The intention of the life cycle stages defined below is to give our customers the necessary foresight for best design and procurement practices. [TDK’s Product Center](#) (website) can confirm the product life cycle for every item. Therefore, we encourage our distribution customers to visit this website frequently for product availability and status.

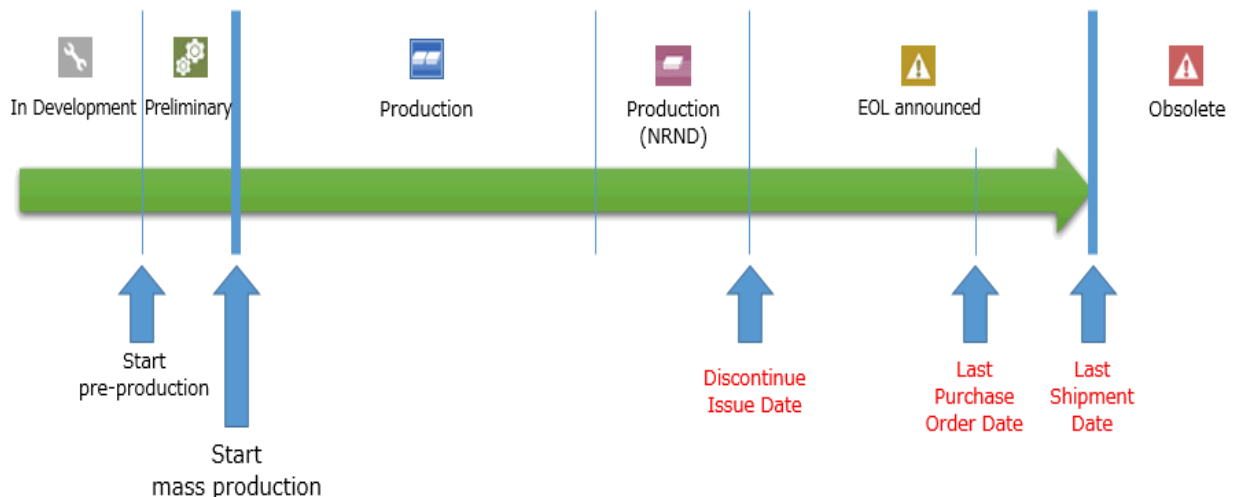


Figure 1 - Various life cycle stages a product may experience during its existence in the distribution channel.

It is important to draw your attention to the status labeled NRND (Not Recommended for New Designs). Part numbers flagged as NRND should advise the designer to avoid using these parts in future designs, and warn the buyer of approaching end of support (i.e., alternative part selection or search for alternative supplier should begin). Therefore, while there are no announced End of Life or Last Time Buy Dates, one should take note of the advanced notice and move away from these NRND products.

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With this new product life cycle status in place, TDK has designated the following commercial grade items as "NRND":

Product Category	Temperature Characteristics	Rated Voltage	Capacitance	Case Size
Commercial Grade	COG/CH/SL	≤ 50V	< 1,000pF	All
Commercial Grade	JB/X5R/X6S/X7R/X7S	≤ 50V	< 0.22μF	All

Figure 2 – High-Level NRND Summary Table.

The NRND item list provided in the email announcement can also be individually located via the following URL Link:

[https://product.tdk.com/en/search/capacitor/ceramic/mlcc/list#psts%5B%5D=10&l=20&p=1&c=part\\_no-part\\_no&d=0](https://product.tdk.com/en/search/capacitor/ceramic/mlcc/list#psts%5B%5D=10&l=20&p=1&c=part_no-part_no&d=0)

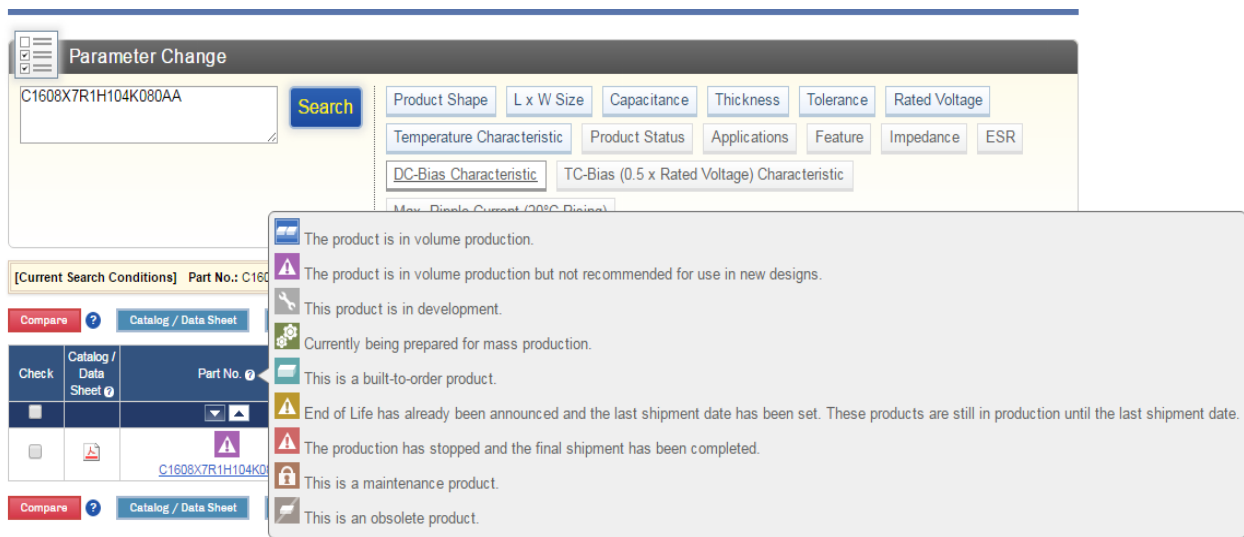



Figure 3 – Results of a single NRND item part number search on TDK web.

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Lastly, the remaining subject matter to discuss is the quoting of extended lead times in 2016. Late 2015 to early 2016, short lead-time order requests bombarded TDK along with an unexpected increase in global demand, which TDK is contractually obligated to support. With the EOL/NRND issue developing around the same time, TDK decided to increase its lead-time accordingly as it works through the orders. As a point of clarification, this backlog refers to late items, which fall into the missed delivery window of currently quoted lead-times with respect to the order date.

Thank you for your patience and kind understanding as TDK is committed to working closely with you to minimize any impact this may have on your products. Please contact your customer service representative for assistance with delivery concerns, especially line stoppages.

### Authorized Signature for TDK Corporation



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