

# **A Common Approach to Characterizing Electronic Components for Demanding Applications**

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Producing parts applicable for demanding applications can take 2 paths. We can establish demanding manufacturing requirements for these products, and test parts from those lots in multiple ways. This is typically how one would build a high-rel product to a government specification. However, it is expensive and can be very time consuming.

A second approach would be to build the parts in a qualified facility with a very controlled and reliable / repeatable process. This is more the approach one might take with an automotive grade product. However, the automotive grade products do have some restrictions that may make it inappropriate for high-rel application.

The manufacturer can establish its own “COTS+” requirements that take a part manufactured with a controlled process and test samples to make it suitable for a higher reliability application. However, those tests can vary from manufacturer to manufacturer. Perhaps a unified approach makes sense. These unified tests could produce a part suitable for use and capable of being supplied by multiple manufacturers.