



GaAs MMIC Space Frequently Asked Questions

I found a Standard device offered on TriQuint's website that meets my Space application needs but the device is not on the Space qualified devices list. Does this mean that this device is not available to be used for Space application?

Absolutely not. TriQuint can Space qualify almost any device that we manufacture (Standard or Foundry). Space is a niche business and TriQuint does not decide which Standard devices to Space qualify. Customers come to us and request that we Space qualify such devices. These customers submit an order for the related NRE and testing charges and TriQuint then performs the related Space qualification effort. The Space qualified device is then added to the Space qualified list and any remaining Space qualified inventory is offered to all customers.

If a device is on the Space qualified list does this mean that Space qualified stock is guaranteed to be available?

Inventory may or may not be available and research will have to be performed on an individual basis. TriQuint does not ensure Space qualified inventory levels for any device. If inventory is available, a customer is able to enjoy price and lead time savings. Once Space inventory for a given device is depleted, the next customer which requires Space qualified deliverables is required to submit an order for the related Space qualification testing. The NRE for any device on the Space qualified list has been performed in the past and no duplication charges will occur.

Does TriQuint Space qualify specific released processes?

TriQuint does not Space qualify processes but instead specific devices. TriQuint does perform thorough reliability testing as related to process qualification before any given process is released. This being said, industry standards require that specific testing be implemented on an individual device. It is understood that Space customers do have more confidence in Space qualifying a device if one or more devices which implement such process have been Space qualified (and related die have been used in Space application). TriQuint will offer as much information as possible about any process of interest.

To what standard does TriQuint Space qualify die?

The TriQuint Space qualification flow is based on the intent of MIL-PRF-38534. This is the industry standard in the U.S. Please contact TriQuint for more specific information about the qualification effort.

If Space qualification testing is required which is outside of TriQuint's standard Space qualification flow should it be assumed that TriQuint cannot offer further testing?

TriQuint tries to work with all customers to ensure that requirements are met. TriQuint's standard Space flow is accepted by many industry leading Space customers but it is understood that requirements are pushed down to our customers. Please just let us know your requirements and related research will be performed. TriQuint is able to perform specialized testing in some circumstances and uses third party vendors at times. If we are not able to meet certain requirements, we will let you know after research has led us to that conclusion.