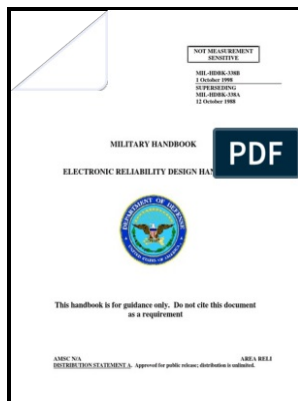


# Reliability design handbook

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Description: -

-Reliability design handbook

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Notes: At head of title: Reliability Analysis Center.

This edition was published in 1976



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## Military Handbook

Correct the root cause of the failure and implement the change Determine the best possible fix in the shortest amount of time. The deciding factor in choosing a distribution type is to select the distribution function that best fits the data.

## NPFC

The sealed chamber allows for higher-than-atmospheric pressure, enabling control of above-average temperatures greater than the 100°C boiling point of water in a controlled-humidity environment. However, it is only through the combined application of additional reliability techniques that reliable products may be realized.

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Temperature Cycle testing provides thermally induced mechanical stresses to precipitate failures due to material fatigue and assembly faults. Without one of these requirements, there will be no corrosion.

## Military Handbook

The interface between GaAs and as-deposited silicon nitride Si<sub>3</sub>N<sub>4</sub>, a commonly used device passivation material, may be quite poor due to mechanical stresses at the interface. In order to evaluate test time and sample size requirements, both time acceleration modeling and statistical analysis are required. This is especially true for RF and microwave parameters.

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The second method is qualitative assessment performed by monitoring various activities in the process to ensure that activities are being

accomplished in a timely manner and that the effort and quality comply with the program plan see Chapter 13.

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There are a number of statistically sound practices in industry. The advantage of the Detail Stress Method is that the output conclusions will reflect the specific conditions and include the effects of the thermal conditions on the failure rate.

**MIL**

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