

JEDEC JC-11 Committee on Mechanical Standardization
Standard Procedures and Practices

Number: SPP-009

Subject: Inclusion of Nominal Dimensions

Effective Date: 24 September 1991

Background

In an effort to make JEDEC package outlines more useful to the industry, the JC-11 Committee on Mechanical Standards has encouraged use of the tightest possible tolerance ranges in new outlines. The utility of these tighter tolerances in JEP95 outlines is facilitated by the inclusion of recommended nominal dimensions.

Practice

All registered and standard outlines submitted for ballot to JC-11 shall include nominal values for specified dimensions.

Application Information

A nominal dimension is the dimension to which a feature of the package is designed and manufactured. The nominal dimension is not necessarily the arithmetic mean of the minimum and maximum values; in some cases the nominal dimension should be nearer one of the limits of size than the other in order to account for tool wear or material variability.

In a JEDEC outline inclusion of a nominal value is not appropriate for all dimensions; in particular, this may be true in cases where only a maximum or minimum value would normally be specified. The originator of the outline and the JC-11 committee must determine for which features of the package nominal dimensions are necessary. A column in the dimensional tables shall be provided for nominal values along with the existing Minimum and Maximum value columns whether or not specific values are defined.

Outlines including nominal dimensions shall also include the following general note: "Nominal dimensions are the dimensions recommended for design and manufacture."

When older outlines are subject to revision, nominal dimensions should be included wherever possible (and wherever known). However, arbitrary specification of the nominal values should be avoided.