

DOCUMENT No: DG-000	TITLE: Dimensioning and Tolerancing Guidelines -- General	PAGE: 1 of 1
APPLICATION:	REVISION: 1/30/04	DATE: 1/30/04

PURPOSE: To establish guidelines for the dimensioning and tolerancing of loudspeaker components ("parts"), including defining the special characteristics and the tolerance to be applied to each feature.

SCOPE: These guidelines will be established for all parts regardless of material or size, although both should be taken into consideration when establishing tolerances.

RESPONSIBILITY: ALMA International Component Standards Sub-Committee

RECORDS: Records will be maintained and kept on file by ALMA International.

RELATED DOCUMENTS: ALMA International Nomenclature Prints (NP's)
ALMA International Measurement Guidelines (MG's)
ALMA International Work Instructions (WI's)
ASME Y14.5M-1994, Dimensioning and Tolerancing

Definitions

Critical Characteristic (C): This characteristic is critical to the fit and function of the part. Any part produced beyond the tolerance limits will not be usable. A Process Capability Index (Cpk) of no less than 1.33 must be maintained.

Significant Characteristic (S): This characteristic is critical to the fit and function of the part. Any part produced beyond the tolerance limits will not be usable.

Standard Characteristic (no symbol): This characteristic is of moderate importance to the fit and function of the part. Parts produced beyond the tolerance limits may be suitable for some applications.

Units

For uniformity, all characteristics are in SI units. Common examples include:

Distance: millimeter (mm)

Angle: degree (°) *

Mass: gram (g)

Temperature: degree Celsius (°C)

Electrical Resistance: ohm (Ω)

Frequency: hertz (Hz)

* This is not an SI unit but is specified by ASME Y14.5M-1994.

Revision History

Rev Level	Description of Change	Prepared/ Changed By/ Date	Approved By/ Date
DRAFT	Create document	Brian Sterling 6/26/03	--
1/30/04	Release document	Brian Sterling 6/26/03	ALMA Committee 1/7/04