

NATIONAL AIRCRAFT STANDARD

AIRCRAFT INDUSTRIES ASSOCIATION OF AMERICA, INC., 1725 DE SALES STREET N. W., WASHINGTON, D. C. 20036

FED SUP CLASS

GDRQ

DIMENSIONAL SYSTEM-MODULAR

Inactive For New Design
After 1/30/81

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1.0 SCOPE

1.1 SCOPE - THIS STANDARD COVERS A SERIES OF DIMENSIONAL SYSTEMS AND NOMENCLATURE TO SERVE AS A GUIDE IN THE CO-ORDINATION OF EQUIPMENT DESIGN, COMPONENT DESIGN AND DESIGN OF MACHINERY FOR AUTOMATIC MANUFACTURE.

2.0 BASIC MODULE

2.1 BASIC MODULAR UNIT - ALL DIMENSIONS WHICH MUST BE CONTROLLED SHALL BE MULTIPLES OF 0.025 INCHES IN DECIMALS AND IN ENGLISH UNITS OF LENGTH.

2.2 APPLICATION - THESE MODULAR DIMENSIONS OR MODULES SHALL APPLY IN ALL THREE AXES OF CARTESIAN COORDINATES TO THE FOLLOWING DIMENSIONS AMONG OTHERS: LOCATION OF EDGES OF BOARDS, SPACING BETWEEN HOLES IN PRINTED WIRE BOARDS, BETWEEN MATRIX POINTS IN WIRE WRAP, BETWEEN LEADS IN TWO OR MULTI-LEADED COMPONENTS OR ELECTRON DEVICES (INCLUDING AXIAL LEAD TYPES WHEN THEIR LEADS ARE BENT PARALLEL), SPACING OF TERMINALS OF OTHER TYPES OF LARGER COMPONENTS, OVERALL PRINTED BOARD DIMENSIONS, LENGTHS, TEST POINT LOCATIONS, INTER-BOARD CONNECTIONS, ETC.

3.0 GRID SYSTEM

3.1 PREFERRED MODULE - THE PREFERRED MULTIPLE OF THE BASIC MODULE 0.025 INCHES SHALL BE 4. THE RESULTING MODULE OF 0.100 INCHES SHALL BE USED TO FORM A COORDINATE GRID OF LINES SEPARATED BY 0.100 INCHES.

3.2 SECOND PREFERRED MODULE - IN THE EVENT THAT SOME OF THE POINTS OF ATTACHMENT WILL NOT FIT ON THE 0.100 INCH INTERSECTION POINTS, THEN THESE POINTS ONLY SHALL BE FITTED ON INTERSECTION POINTS OCCURRING ON LINES FORMED BY THE BASIC MODULE (.025) MULTIPLIED BY 2, THAT IS, ON 0.050 INCH LINES).

3.3 THIRD PREFERRED MODULE - IN THE EVENT THAT SOME OF THE POINTS OF ATTACHMENT WILL NOT FIT EITHER ON THE 0.100 INCH INTERSECTION POINT, OR ON THE 0.050 INCH INTERSECTION POINTS, THEN THEY SHALL IN LIKE MANNER, BE FITTED ONTO INTERSECTING POINTS OF THE BASIC (0.025 INCH) MODULE.

CUSTODIAN: ELECTRONIC EQUIPMENT COMMITTEE

PROCUREMENT
SPECIFICATION

NONE

TITLE

DIMENSIONAL SYSTEM-MODULAR

CLASSIFICATION

DESIGN STANDARD

NAS 719

SHEET 1 OF 2

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3.0 GRID SYSTEM (CONT'D)

- 3.4 OTHER PREFERENCES - THERE MAY BE ITEMS WHICH WILL NOT FIT THE PREFERRED MODULES. IN THIS EVENT, A BASIC LOCATING OR OTHER FEATURE SHALL BE PLACED ON THE MODULAR GRID. EXAMPLE: THE CENTER POINT OF A CLUSTER OF TERMINALS, SUCH AS A SOCKET OR TRANSFORMER HEADER, OR AT LEAST ONE MOUNTING SCREW, LUG, ETC., MAY BE PLACED ON A 0.100 INCH INTER-SECTION POINT.

4.0 NOTES

- 4.1 EDGES AND FLAT SURFACES SHOULD BE LOCATED ON GRID LINES.
- 4.2 CENTERLINES AND POINTS OF ATTACHMENT OF HARDWARE AND COMPONENTS SHOULD BE LOCATED AT THE INTERSECTION OF GRID LINES.

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NAS Documents
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