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### Vendor Item Drawings

The Defense Logistic Agency Land and Maritime group (DSCC) is releasing new Vendor Item Drawings (VIDs) almost daily. While these documents have existed for some time there is still some confusion about exactly what is meant by a Vendor Item Drawing and the benefits of VIS system.

The Defense Logistics Agency Logistics Information Service defines a VID as follows:

Reference Number Category Code (RNCC) 7: Vendor Item Drawing Reference (formerly Specification Control Reference). The number assigned by a design activity to a drawing that is not item identifying, but which delineates existing commercial or vendor developed items meeting all engineering and test requirements specified, without imposing additional test/engineering requirements not normally provided by the vendor(s). Includes only those drawings which meet the definition of Vendor Item Drawing in MIL-STD-100. Vendor item drawing references are administrative control numbers and shall not be used as part identification numbers.

MIL-STD-100 is a bit sketchy about the definition of a VID, also known as a Vendor Item Control Drawing, but in the case of microcircuits it is pretty specific about what isn't a VID.

201.1 Standard microcircuit drawing (SMD). [...] Vendor item control drawings shall not be used to depict microcircuits (Federal Supply Class 5962) which comply with MIL-STD-883. Microcircuits compliant with MIL-STD-883 shall be depicted on an SMD.

406.10 Item identification and PIN. [...] The PIN for an item delineated on a vendor item control drawing shall be the part number assigned by the vendor.

Within the boilerplate of DSCC Vendor Item Drawings the requirements are further defined:

Vendor Item Drawing Administrative Control Number - The manufacturer's PIN is the item of identification. The vendor item drawing establishes an administrative control number for identifying the item on the engineering documentation:

Marking - Parts shall be permanently and legibly marked with the manufacturer's part number as shown [...] herein and as follows:

- A. Manufacturer's name, CAGE code or logo
- B. Pin 1 identifier
- C. ESDS identification (optional)

Product assurance requirements - The manufacturer is responsible for performing all inspection and test requirements as indicated in their internal documentation

Packaging - Preservation, packaging, labeling, and marking shall be in accordance with the manufacturer's standard commercial practices for electrostatic discharge sensitive devices.

Configuration control - The data contained herein is based on the salient characteristics of the device manufacturer's data book. The device manufacturer reserves the right to make changes without notice. This drawing will be modified as changes are provided.

In general a VID is \*NOT\* a MIL-SPEC not is it the equivalent of a DSCC Standard Microcircuit Drawing (SMD) or a JAN Slash Sheet. VIDs exist to provide a procurement mechanism for enhanced commercial products such as TI's Enhanced Products (EP) line. A VID provides a standardization format which precludes the need for most defense OEMs to generate specification control drawings (SCDs) or unique VIDs of their own and avoid the proliferation of multiple non-standard products.

For critical requirements and those programs which require more than an enhanced commercial-off-the-shelf solutions, Texas Instruments offer a full line of QML Class V and QML Class Q microcircuits and the expertise to implement and qualify new designs or build-to-print products.

Texas Instruments is committed to providing the highest quality products to the HiRel, Defense, and Aerospace communities. Please feel free to contact the undersigned if additional information is required.

Sincerely,  
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