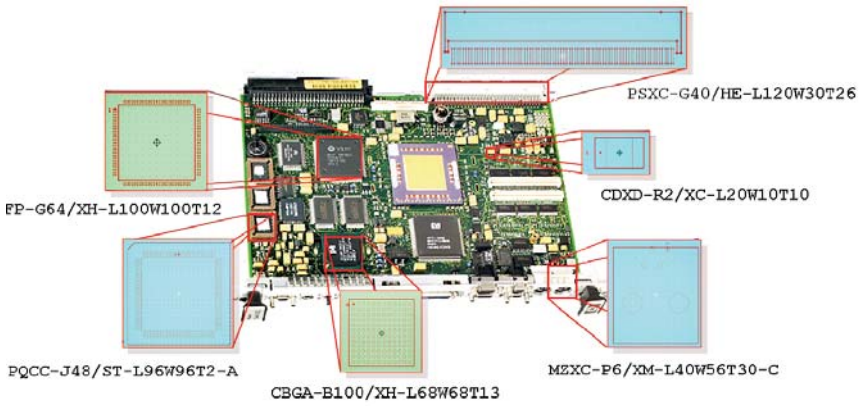
VPL — Valor Parts Library

Manufacturing

D A T A S H E E T

Consistent, Updated, Component Package Data



Package models contain accurate graphical contour, pin contact areas and positions, dimensional tolerances, attributes such as overall dimensions

Major product benefits

- Accurate physical models of all your electronic components and connectors delivered directly into your engineering applications.
- "As-built" precision enables realistic documentation and accurate Design for Assembly (DFA) analysis
- Basis for Auto-Generation of SMT machine libraries
- Removes cost and process bottleneck of researching component data
- Users can also create custom attributes for individual part numbers
- Completely scalable for any size operation, from a single site to a large global enterprise

Overview

The Valor Parts Library (VPL) is a unique service to the PCB design and manufacturing industries. Accurate physical models of all your electronic components and connectors, in a consistent CAD/CAM-friendly format, delivered directly into your engineering applications.

Accurate Physical Models of each Component in your BOM

VPL contains more than 35 million commercial electronic component part-numbers and their dimensioned package models containing accurate graphical contour, pin contact areas and positions, dimensional tolerances, attributes such as overall dimensions including height, pin 1 identification and much more. Package names are based on the recognized JEDEC JES-D 30B standard.

Support your Part Libraries for SMT Machines, Documentation and DFM

VPL replaces CAD-drawn component packages with a geometrically accurate component model. The "as-built" precision enables realistic documentation, accurate Design for Assembly (DFA) analysis, and creates the basis for Auto-Generation of SMT machine libraries (patent pending, see vPlan data sheet). VPL removes the cost and process bottleneck of researching component part data.

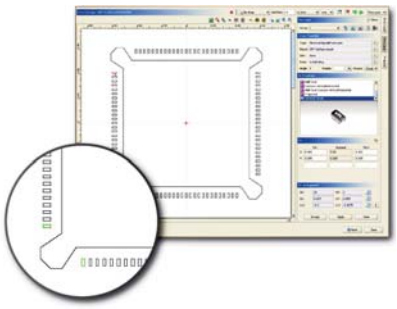
No more valuable time wasted searching for component data sheets, or manually measuring parts with calipers. When the VPL is used with vPlan, even missing part data from your machine libraries can be automatically created on demand!

VPL Library Manager (VLM)

The VLM application provides searching, viewing, drawing, editing, comparing, linking, importing, and exporting functions of the VPL data. With the VLM you can quickly set multilevel filters, view and edit part definitions, view the shape of a part and compare shapes to assure fit for all qualified part numbers. VLM also provides an extensive drawing tool kit for creating new part packages by the user. There are many time saving templates and shortcuts included for creating even the most complex shapes quickly and accurately.

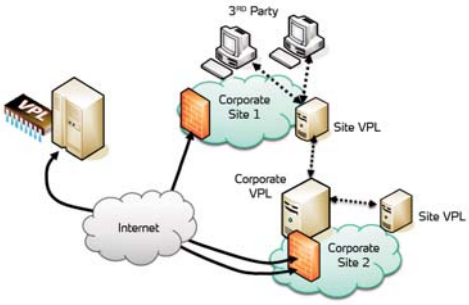
Mentor Graphics

With the VLM users can also create custom attributes for individual part numbers. These attributes can be used to support regulation requirements such as Lead Free, or even performance characteristics needed for test or inspection. For example, your component engineer can add-in customized content that describes the "lead free" status of your parts so this differentiating detail be utilized in work instructions or process preparation tasks. There is no limit to the custom content you can add.



Multi Site Support

VPL service is completely scalable for any size operation, from a single site to a large global enterprise. Hierarchical multi-site support enables large customers to share VPL content across all sites. Shared content means no time wasted in creating duplicate shapes, and any updates or corrections entered into the system are synchronized to all user locations automatically.



Fully scalable, synchronized multi-site support

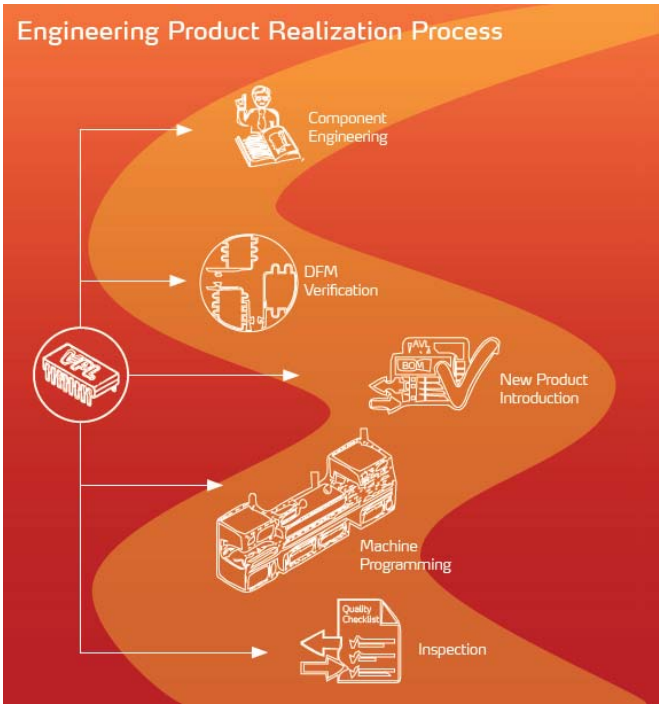
Ready to Integrate with any Engineering Tool

With the VPL you can leverage your library, including custom content, to improve the performance of other tools. Component engineers, PCB layout designers, DFM analysts, process development engineers, documentation specialists, and quality control personnel can all benefits from the immediate availability of accurate component models.

Enriched Virtual Prototyping

By the delivery of accurate component models into your engineering tool kits, VPL supports the full virtual "prototyping" of your products. This provides for fast off-line simulations to validate physical design characteristics against assembly and test constraints even before a first article or pilot run. With the "as-built" dimensionally accurate package data you can validate critical manufacturing processes in advance, such as solder-joint formation, test-point accessibility, pick-and-place constraints, re-work accessibility, and much more.

When design changes are required the VPL adds even more value by saving on time-to-volume, and downstream engineering costs. This is achieved by providing immediate precise feedback on the physical dimensional attributes of components impacted by the change order, before you commit to hardware. Do you need to know if a new BOM revision impacts solderability or test point access? Make the VPL part of your engineering solution to get answers fast.



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