# VALOR PARTS LIBRARY (VPL)

## Centralized library of always up-to-date electronic components

Valor Parts Library (VPL) is a centralized platform that provides accurate, up-to-date data on electronic components for designers and manufacturers. With over one billion electronic components, VPL ensures access to complete and verified information, reducing the risk of errors and speeding up development.

VPL's integration with PCB design tools enables automation of processes and reduces manual data entry, improving overall efficiency.

## Why choose Valor Parts Library (VPL)?

### Continuously updated database

VPL provides access to a database of over one billion electronic components, constantly updated with the latest specifications. This ensures accurate data, minimizes the risk of using outdated information, and enhances design quality.

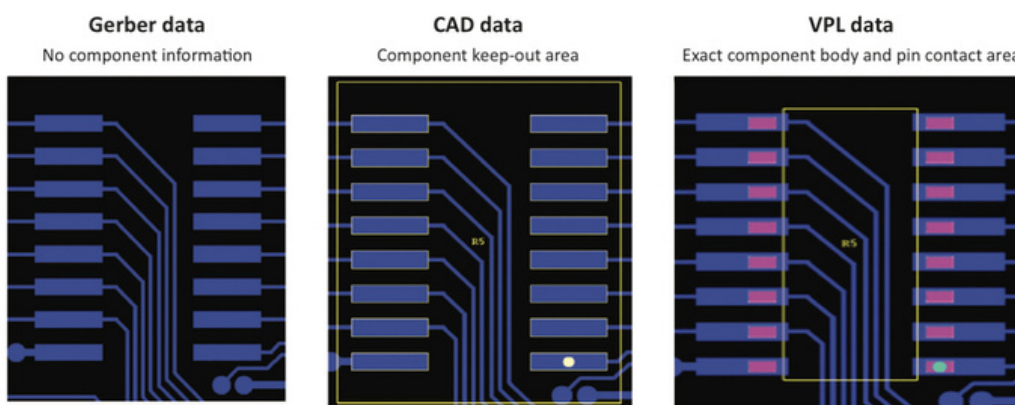### Facilitates the NPI (New Product Introduction) process

Valor Parts Library connects PCB design to Design for Manufacturing (DFM), accelerating the New Product Introduction (NPI) process. Full DFM analysis of a PCB project can be performed using Valor Parts Library and Valor NPI.

### Reduces NPI costs

Valor Parts Library eliminates NPI costs and process bottlenecks related to component data lookup with its customizable PCB design and manufacturing database —expandable with proprietary or third-party parts.
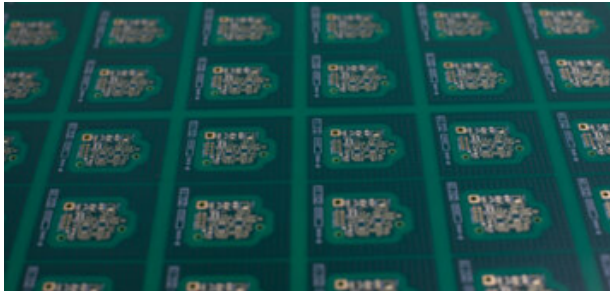
### Analyze your design like your EMS would

With VPL, a designer can analyze their design exactly as their EMS provider would, enabling accurate manufacturing instructions and preventing production line errors. Assembly analysis results are automatically displayed in Xpedition.



Gerber data — No component information

CAD data — Component keep-out area

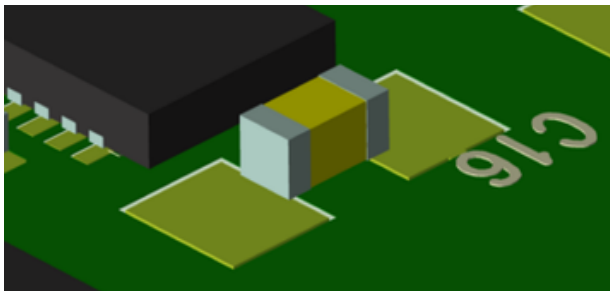VPL data — Exact component body and pin contact area

Even the highest-quality PCB design libraries contain only a fraction of the data available in VPL. The VPL library includes more than one billion part numbers from electronic component manufacturers. It features accurate component geometries, named packages, and attributes such as height, pitch, length, and width. Package names comply with JEDEC JES-D 30I standards.

# Discover the benefits of Valor Parts Library

## Fast and accurate access to component data

With over one billion electronic components in its database, VPL delivers precise, updated information. This allows designers to select the right parts without risking errors from outdated or unverified data, increasing overall project reliability.

## Seamless integration with PCB design tools

Valor Parts Library integrates easily with leading PCB design tools, automating component selection and updates. This drastically reduces design time and minimizes errors caused by manual data entry.

## Component verification and reduced manufacturing defects

With automated data verification, VPL helps prevent issues during production. The precision of component information reduces defect risks, ensures smoother manufacturing, avoids costly rework, and improves final product quality.

## Collaboration and centralized data management

VPL enables easy information sharing between design and manufacturing teams, ensuring access to consistent and up-to-date data. This improves collaboration, reduces the risk of miscommunication, and enhances the efficiency of the overall product development process.

## Support for compliance and regulations

VPL provides detailed component data that includes compliance and regulatory information. This helps companies ensure that their designs meet current standards, reducing non-compliance risks and simplifying the product certification process.