

4DOnline

Parts Universe

Intuitive online electronic
component selection tool



The Source
for Critical Information and Insight™

Avoid component obsolescence issues
and meet technical and compliance
requirements by locating the right parts

Intelligent Component Information

Every day you are challenged to build better products, identify, evaluate and select appropriate components, meet mission-critical deadlines, and beat the competition to market. Reliable component selection and supplier sourcing are imperative to tackling these challenges. You need a source you can trust for comprehensive and current electronic component information.

IHS 4DOnline Parts Universe brings you the next dimension of intelligent component selection. The 4th dimension is time. With 4DOnline Parts Universe, you accelerate time-to-value by improving your component selection and management processes.

With Parts Universe, you have access to a world-class electronics database that provides information on millions of electronic components from leading worldwide manufacturers.

- **Board Level Components.** Contains commercial and military integrated circuits, frequency control devices, optoelectronics, RF/microwave, resistors, capacitors, inductors, electromechanical devices and connectors.
- **Obsolescence and Predictive Information.** Contains part status, current life cycle stage, life time buy information, product change notices and predicted years to end of life.

- **Environmental Information.** Includes lead-free, peak reflow temperature, moisture sensitivity level, JESD-97 codes, RoHS yes/no and detailed RoHS substance concentration and weight data.
- **Manufacturer Documentation.** Includes current and historical datasheets, product change notices, timing diagrams and application notes.

Quickly access the component information you need by whole or partial manufacturer part numbers, technical attributes, category browsing, industry keywords and manufacturer name. Results are presented in a standardized format, independent of supplier, allowing you to quickly compare part details side-by-side to make cost-effective decisions.

At the heart of Parts Universe is the IHS Electronics Database (ED), delivering the underlying solution power to conduct analytical design and sourcing – decisions that empower enterprises to accelerate the value derived from key solutions based on business initiatives. IHS ED provides the desktop resource companies need to optimize the component selection process, providing a single intelligent product catalog for more than 14 million electronic parts from over 500 manufacturers and in 350+ categories. Through ISO registered processes and procedures and strategic relationships with our customers and manufacturers, IHS leverages industry subject matter experts to continually build and maintain ED to change with evolving needs in the marketplace.

Component, design, and manufacturing engineers, as well as procurement and sales/marketing professionals, can leverage Parts Universe to access critical component information, including component alternates, part status, manufacturer datasheets, application notes, timing diagrams, and PCNs. Parts Universe meets the needs of distributors, contract manufacturers, and OEMs of all sizes and across all industries – from high-tech to automotive.

IHS 4DOnline Parts Universe is a strategic tool that helps you:

- **Save valuable research time.** Locate parts quickly and eliminate multiple research sources or searching various websites for parts information. IHS maintains partnerships with both customers and manufacturers to ensure Parts Universe contains the most up-to-date component information. Spend less time conducting research and more time on your key strategic initiatives.
- **Reduce material costs.** Find direct replacements, upgrades or downgrades and in a single click. Evaluate alternate parts side-by-side, with the technical differences highlighted, to meet your design requirements and determine if parts in inventory suffice. Understand if a given part is a high risk sole source component. With direct access to analytical predictive lifecycle information and part alert notifications, you can effectively address lifecycle and environmental compliance management challenges.
- **Minimize redesign efforts and costs.** Prevent problems before they happen and react quickly when you encounter problems. Streamline the life cycle management process by mapping design and component life expectancy. Mitigate the costs associated with introducing a new part that already exists on your internal AVL/AML. Ensure the right parts are selected the first time and suitable drop-in replacements are found when parts obsolescence issues and supply chain shortages inevitably arise.

- **Improve Sales and Market Insight.** Give sales and marketing access to the information they need to examine and evaluate the competition in the marketplace. If you distribute or sell components, link your internal supply chain data with critical detailed component information to efficiently process quotations and bills of materials.

The 4DOnline solution suite provides a migration path to expand the baseline capabilities of Parts Universe to meet your needs today and into the future.

4DOnline Parts Universe Materials Analysis (PUMA)

combines the search power of Parts Universe with an intuitive, automated BOM (Bill of Material) tool that enables engineers and procurement professionals to conveniently and cost-effectively cleanse and verify components. Locate environmentally compliant parts – RoHS, Lead-Free, Peak Reflow Temp, etc. – to avoid obsolescence and non-compliance costs.

4DOnline BOM Optimizer combines the search power of Parts Universe and extends the BOM tool capabilities beyond PUMA with the ability to create custom reports, create user-defined fields/layouts, and generate risk rules. BOM Optimizer examines the supply-chain viability of your component and supplier information in your existing AVLs/AMLs (Approved Vendor/Materials list) or BOMs. BOM Optimizer cleanses and verifies part numbers and manufacturers, integrating transaction data and manufacturer electronic component data. BOM Optimizer provides the option to purchase manual cleansing services to further improve your BOM matching results.

4DOnline Web Services provides the ability to interface directly to the Parts Universe Electronics Database via xml web calls based on a customer-defined requirements. In addition, IHS provides web services interface connections to several software partners including Agile and PTC.



For more information on IHS 4DOnline Parts Universe:

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