



## Introduction to Octopart™ : Find Parts Fast

Andres Morey – Octopart

Janine Yoong – Octopart

### PL2566-R

Access to electronic component information is a key competitive advantage in the design and manufacturing process. In this class, a founder of Octopart, the leader in electronic part search, shares tips and tricks to search more effectively for component pricing, availability, technical specs, compliance status, and more. We dive into specific examples of how new search technology opens up access to data and improves workflow efficiency in a variety of use cases. We also present how-tos for using Octopart applications with Autodesk® PLM 360. Attendee participation is encouraged at this roundtable session.

### Learning Objectives

At the end of this class, you will be able to:

- Access part information more quickly and effectively
- Explore new use cases where part search can improve workflow
- Describe new industry trends in search and big data
- Explain how you can use Octopart applications in Autodesk PLM 360

### About the Speaker

Andres is co-founder at Octopart Inc. where he leads product design and development. Prior to Octopart, Andres worked on the IceCube Neutrino Observatory building electronic devices to calibrate the detector and measure ash layers in the ice at the South Pole.

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## Introduction

Historically, it's been extremely expensive and time consuming to access part data for use in design, sourcing and manufacturing. Information such as lifecycle status, compliance documents and technical specs have been locked inside expensive proprietary databases or siloed inside supplier websites. As a result, it's been difficult to do component comparisons across manufacturers or inventory checks across distributors. Engineering firms have been forced to spend a lot of time aggregating data themselves in order to avoid facing supply chain or design issues with the potential to halt an assembly line.

To fix this problem, Octopart has been aggregating component data from manufacturers and distributors and making it available on its website, Octopart.com as well as through the Octopart API for everyone in the component value chain to access easily. Using Octopart, you can do quick real-time inventory checks across all major distributors as well as access deep component data for use in design and manufacturing.

The goal of this class is to introduce you to Octopart and give you an overview of the type of data that is available via our system. Next, we'll demonstrate how you can import data from Octopart directly into PLM 360 using the Octopart App (available in the PLM 360 App Store). Finally, we'll review the direction the industry is headed so you can start thinking about how your business can take advantage of emerging trends in access to component data.

Our hope is that this class will take you one step closer to making your BOMs supply-chain aware!

## What is Octopart?

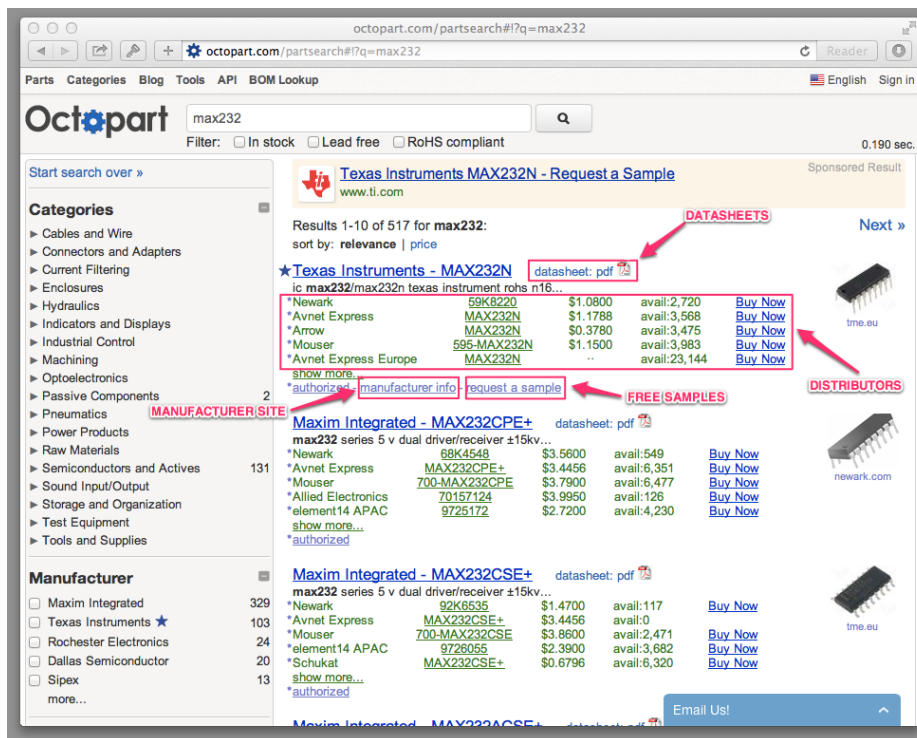
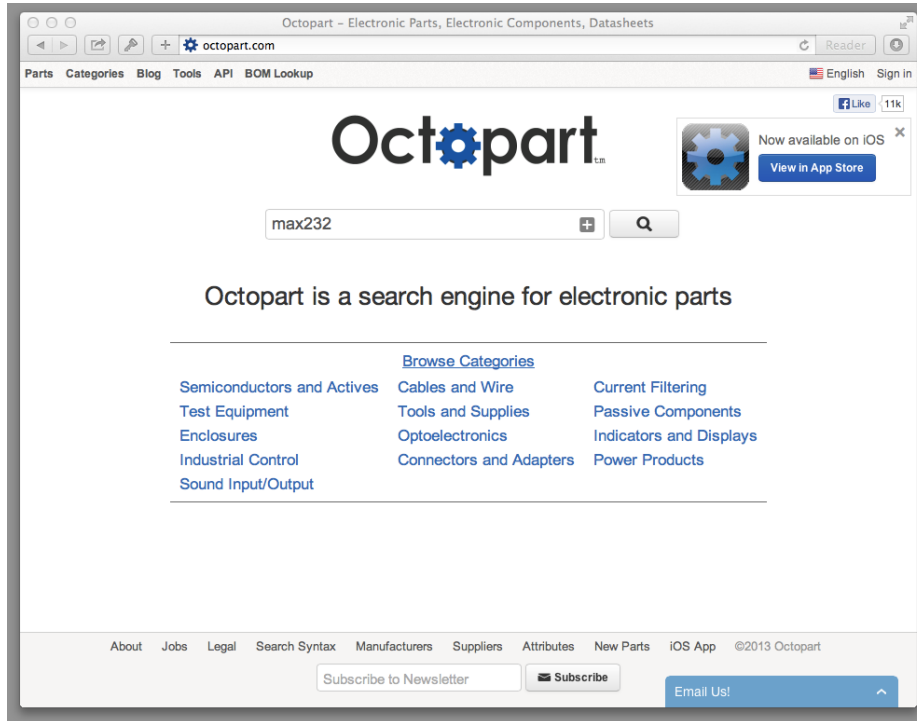
Octopart is a NYC-based startup that is leading the charge to open up access to electronic part data for design, sourcing and manufacturing. The company was founded in 2006 by three experimental physicists who found it extremely frustrating to find components for their designs and had a vision for a more effective way of searching for parts online.

Octopart aggregates component data from manufacturers and distributors and makes it available via the company's website ([Octopart.com](https://www.octopart.com)) as well as through its Web Services API (the Octopart API). Currently, Octopart.com attracts more than 600,000 unique users per month, primarily design engineers, contract manufacturers, supply chain specialists and compliance specialists. The Octopart API is used by hundreds of OEMs and CMs that range in size from small design shops to multi-billion dollar engineering firms.

## Octopart.com

The easiest way to use Octopart is by visiting Octopart.com. On Octopart.com you can look up parts by MPN or SKU, access datasheets, check distributor inventories, order free samples, perform sophisticated parametric searches, browse categories and much more. The following is an overview of some of the most popular features on the website.

## Search by part number (MPN or SKU)



Part number wildcards

octopart.com/partsearch#?q=max232

octopart.com/partsearch#?q=max232N\*&start=0&limit=10

Reader

Parts Categories Blog Tools API BOM Lookup

English Sign in

Octopart

max232N\*

Filter: ☐ In stock ☐ Lead free ☐ RoHS compliant

0.101 sec.

Start search over »

Categories

Cables and Wire

Connectors and Adapters

Current Filtering

Enclosures

Hydraulics

Indicators and Displays

Industrial Control

Machining

Optoelectronics

Passive Components

Pneumatics

Power Products

Raw Materials

Semiconductors and Actives

Sound Input/Output

Storage and Organization

Test Equipment

Tools and Supplies

Manufacturer

☐ Texas Instruments ★

☐ Maxim Integrated

☐ Rochester Electronics

Distributor

☐ Avnet Express

☐ Verical

Texas Instruments MAX232N - Request a Sample

www.ti.com

Sponsored Result

Results 1-10 of 16 for max232N\*:  
sort by: relevance | price

★Texas Instruments - MAX232N

datasheet: pdf

ic max232/max232n texas instrument rohs n16...

\*Newark

59K8220

\$1.0800

avail:2,720

Buy Now

\*Avnet Express

MAX232N

\$1.1788

avail:3,568

Buy Now

\*Arrow

MAX232N

\$0.3780

avail:3,475

Buy Now

\*Mouser

595-MAX232N

\$1.1500

avail:3,983

Buy Now

\*Avnet Express Europe

MAX232N

..

avail:23,144

Buy Now

show more...

authorized - manufacturer info - request a sample

★Texas Instruments - MAX232NSR

datasheet: pdf

RS-232 Interface ICs Dual EIA-232 Driver/ Receiver

\*Newark

75C0978

\$1.0800

avail:0

Buy Now

\*Avnet Express

MAX232NSR

\$0.4981

avail:38,000

Buy Now

\*Mouser

595-MAX232NSR

\$1.1500

avail:2,287

Buy Now

\*Digi-Key

MAX232NSR

\$0.4620

avail:9,291

Buy Now

\*Verical

MAX232NSR

\$0.4714

avail:56,000

Buy Now

show more...

authorized - manufacturer info - request a sample

★Texas Instruments - MAX232NE4

datasheet: pdf

RS-232 Interface ICs Dual EIA-232 Driver/ Receiver

\*Newark

43K9363

\$1.08000

avail:0

Buy Now

\*Avnet Express

MAX232NE4

\$0.50910

avail:558

Buy Now

\*Arrow

MAX232NE4

\$0.39300

avail:680

Buy Now

\*Mouser

595-MAX232NE4

\$1.15000

avail:1,542

Buy Now

\*Digi-Key

MAX232NE4-ND

\$0.54781

avail:0

Buy Now

show more...

authorized - manufacturer info - request a sample

★Texas Instruments - MAX232NSR51

datasheet: pdf

Next »

Email Us!

4

## Parametric search

octopart.com/partsearch#?q=capacitor

Dielectric Material

- ☐ Ceramic 49,045
- ☒ Tantalum 19,966
- ☐ Aluminum Electrolytic 17,177
- ☐ Ceramic Multilayer 10,465
- ☐ Polyester 3,821

Capacitance Tolerance

- ☐ ±10% 8,366
- ☐ ±20% 5,808
- ☐ ±5% 2,895
- ☐ ±1% 1,155
- ☐ ±2% 1,154

Dielectric Characteristic

- ☐ COG/NPO 4,622
- ☐ X7R 4,051
- ☐ Y5V 1,187
- ☐ X5R 89

Capacitance

Set Exact: 887 found - apply filter

Value: 10  $\mu\text{F}$

Set Range: Min: 10  $\text{pF}$  (10  $\text{pF}$ ) Max: 3.3  $\text{mF}$  (3.3  $\text{mF}$ )

Voltage Rating (DC)

Set Exact: Value: V Min: 0 V (0 V)

Filter by Dielectric Material

Filter by Capacitance

Results 1-10 of 341 for capacitor

sort by: relevance | price

Vishay - 293D106X9020B2TE3

20v surface mount (smd) tantalum capacitor b 3528 10% molded 100% tin - rohs...

\*Newark 09K5846 \$0.65600 avail:16,999 Buy Now

\*Avnet Express 293D106X9020B2TE3 \$0.09860 avail:180,000 Buy Now

\*Verical 293D106X9020B2TE3 \$0.12760 avail:8,000 Buy Now

\*Arrow 293D106X9020B2TE3 \$0.13260 avail:4,000 Buy Now

\*TTI 293D106X9020B2TE3 \$0.10600 avail:40,000 Buy Now

Vishay - 293D106X9035D2TE3

tantalum capacitor; capacitor type:solid;...

\*Newark 65K2820 \$1.14000 avail:685 Buy Now

\*Avnet Express 293D106X9035D2TE3 \$0.18210 avail:97,500 Buy Now

\*Future Electronics 293D106X9035D2TE3 \$0.24200 avail:944,000 Buy Now

\*TTI 293D106X9035D2TE3 \$0.19500 avail:46,500 Buy Now

\*Rutronik KTA6340 \$0.26360 avail:39,000 Buy Now

Kemet - T491A105K016AT

voltage rating:16v; esr:10ohm; capacitor case style:3216-18; no. of...

\*Newark 87H4373 \$0.0750 avail:32,000 Buy Now

\*Avnet Express T491A105K016AT \$0.0501 avail:138,000 Buy Now

\*Arrow T491A105K016AT \$0.0586 avail:28,000 Buy Now

\*Verical T491A105K016AT \$0.0530 avail:2,000 Buy Now

\*TTI T491A105K016AT \$0.0542 avail:272,000 Buy Now

Vishay - 293D106X9025D2TE3

25v surface mount (smd) tantalum capacitor d 7343 10% molded 100% tin - rohs...

\*Newark 65K2818 \$0.34500 avail:1,650 Buy Now

\*Avnet Express 293D106X9025D2TE3 \$0.40200 avail:77,500 Buy Now

\*Arrow 293D106X9025D2TE3 \$0.21570 avail:13,000 Buy Now

\*Verical 293D106X9025D2TE3 \$0.16830 avail:13,000 Buy Now

\*TTI 293D106X9025D2TE3 \$0.24800 avail:25,000 Buy Now

AVX - TPSD107K010R0100

Chat with us!

octopart.com/partsearch#?q=capacitor&start=0&limit=10&filter%5B%5Bfields%5D%5Bspecs.dielectric\_material.value%5D%5B%5D=Tantalum

Octopart

capacitor

Filter: ☒ In stock ☐ Lead free ☐ RoHS compliant

0.328 sec.

Start search over

Categories

- Cables and Wire
- Connectors and Adapters
- Current Filtering
- Enclosures
- Hydraulics
- Indicators and Displays
- Industrial Control
- Machining
- Optoelectronics
- Passive Components 341
- Pneumatics
- Power Products
- Raw Materials
- Semiconductors and Active
- Sound Input/Output
- Storage and Organization
- Test Equipment
- Tools and Supplies

Manufacturer

- ☐ AVX Interconnect / Elco 100
- ☐ Kemet 91
- ☐ Vishay 93
- ☐ Vishay Sprague 51
- ☐ AVX 34
- more...

Applied filters:

- In Stock: yes remove
- Distributor: Digi-Key remove
- Capacitance: 10  $\mu\text{F}$  remove
- Dielectric Material: Tantalum remove

Results 1-10 of 341 for capacitor

sort by: relevance | price

Vishay - 293D106X9020B2TE3

20v surface mount (smd) tantalum capacitor b 3528 10% molded 100% tin - rohs...

\*Newark 09K5846 \$0.65600 avail:16,999 Buy Now

\*Avnet Express 293D106X9020B2TE3 \$0.09860 avail:180,000 Buy Now

\*Verical 293D106X9020B2TE3 \$0.12760 avail:8,000 Buy Now

\*Arrow 293D106X9020B2TE3 \$0.13260 avail:4,000 Buy Now

\*TTI 293D106X9020B2TE3 \$0.10600 avail:40,000 Buy Now

Vishay - 293D106X9016B2TE3

tantalum surface mount chip capacitors, b case code... capacitors...

\*Newark 65K2814 \$0.59700 avail:1,036 Buy Now

\*Avnet Express 293D106X9016B2TE3 \$0.16800 avail:96,000 Buy Now

\*Arrow 293D106X9016B2TE3 \$0.11230 avail:48,000 Buy Now

\*Verical 293D106X9016B2TE3 \$0.08760 avail:48,000 Buy Now

\*Future Electronics 293D106X9016B2TE3 \$0.09770 avail:932,000 Buy Now

Vishay - 293D106X9035D2TE3

tantalum capacitor; capacitor type:solid;...

\*Newark 65K2820 \$1.14000 avail:685 Buy Now

\*Avnet Express 293D106X9035D2TE3 \$0.18210 avail:98,000 Buy Now

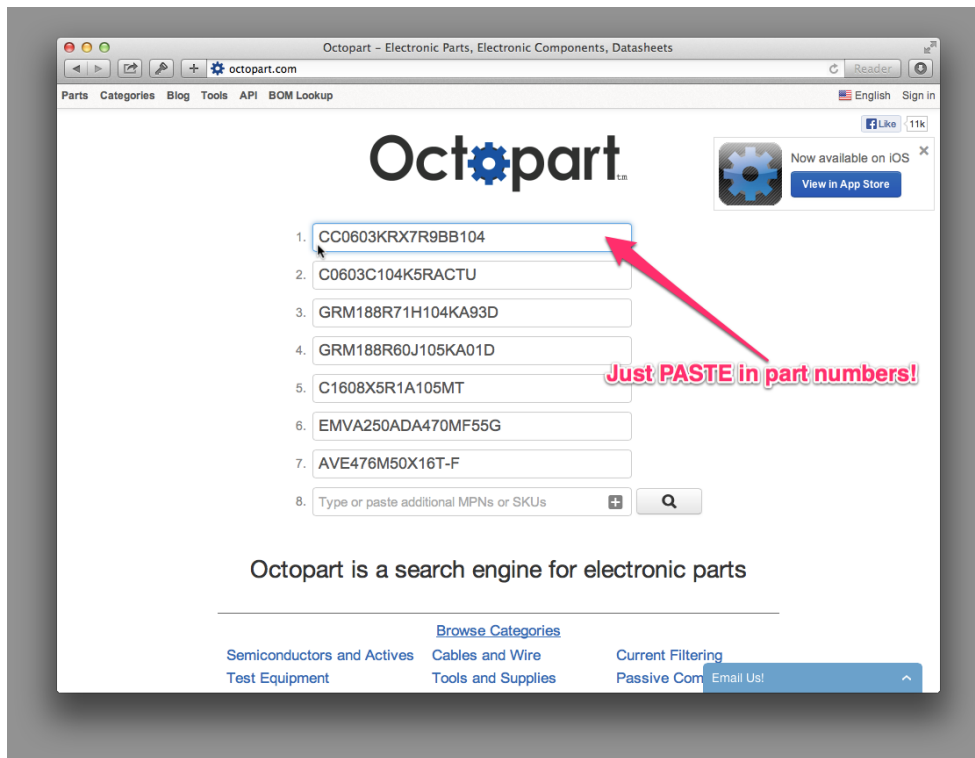
\*Future Electronics 293D106X9035D2TE3 \$0.24200 avail:944,000 Buy Now

\*TTI 293D106X9035D2TE3 \$0.19500 avail:46,500 Buy Now

\*Rutronik KTA6340 \$0.26360 avail:39,000 Buy Now

Email Us!

## BOM Lookup



BOM Lookup - Octopart

octopart.com/bom-lookup/z0lk1N82

Parts Categories Blog Tools API BOM Lookup

English Sign in

**Octopart** BOM Lookup

Saved just now

	Line Item	Qty	MPN	Manufacturer	Distributors	Price (USD)	Extended Total	Grand Total
1.	CC0603KRX7R9BB104 ×	1	CC0603KRX7R9BB1...	Yageo	8	Low \$ 0.040 High \$ 0.100	Low \$ 0.04 High \$ 0.10	Low \$ 0.04 High \$ 0.10
2.	C0603C104K5RACTU ×	1	C0603C104K5RACT...	Kemet	8	Low \$ 0.009 High \$ 0.100	Low \$ 0.01 High \$ 0.10	Low \$ 0.01 High \$ 0.10
3.	GRM188R71H104KA9: ×	1	GRM188R71H104KA...	Murata	8	Low \$ 0.031 High \$ 0.210	Low \$ 0.03 High \$ 0.21	Low \$ 0.03 High \$ 0.21
4.	GRM188R60J105KA01 ×	1	GRM188R60J105KA...	Murata	8	Low \$ 0.041 High \$ 0.100	Low \$ 0.04 High \$ 0.10	Low \$ 0.04 High \$ 0.10
5.	C1608X5R1A105MT ×	1	C1608X5R1A105MT	TDK	0	N/A	N/A	N/A
6.	EMVA250ADA470MF5: ×	1	EMVA250ADA470MF...	United Chemi-Co...	9	Low \$ 0.109 High \$ 0.420	Low \$ 0.11 High \$ 0.42	Low \$ 0.11 High \$ 0.42
7.	AVE476M50X16T-F ×	1	AVE476M50X16T-F	Cornell Dubilie...	5	Low \$ 0.080 High \$ 0.227	Low \$ 0.08 High \$ 0.23	Low \$ 0.08 High \$ 0.23
	MPN or SKU							
	<b>Component Count</b>	7						
					<b>BOM Multiple:</b>	1	Low \$ 0.31 High \$ 1.16	Low \$ 0.31 High \$ 1.16

Questions or Comments? Give us Feedback!

Email Us!

## Octopart API

All of the data available on Octopart.com is also available via the Octopart API (<http://octopart.com/api>). The Octopart API is an online part database for developers. Using the Octopart API, developers can access Octopart data programmatically via simple web service requests. Typical use cases for the Octopart API are BOM scrubbing scripts, ERP/MRP integrations, PLM integrations, EOL notifications. Octopart.com is powered by the Octopart API.

The Octopart API is well-documented, with many coding examples written in Python, Ruby and JavaScript. Engineering firms with programmers on staff have been able to quickly integrate the Octopart API in order to make their internal systems more efficient.

The screenshot shows the Octopart API website. The header includes the Octopart API logo, navigation links for Pricing, Support, and Documentation, and buttons for Sign In and Sign Up. The main content area is divided into several sections:

- Online Part Database for developers:** A dark blue banner with the text "The Octopart API makes it easy to access electronic part data for manufacturing, design, and sourcing." and a "Get Started for Free" button. To the right, there's a section for "From our App Gallery:" featuring Autodesk PLM 360 - PLM in the cloud.
- Instant access to part data:** A section titled "Search by MPN (Try it Now!)" with a text box explaining that the API is easy to query from the command line or any programming language. It includes a code block for a curl command:
 

```
$ curl -G http://octopart.com/api/v3/parts/match \
  -d queries="{\"mpn\":\"SN74S74N\"}" \
  -d apiKey=EXAMPLE_KEY \
  -d pretty_print=true
```
- Pricing and Availability:** A section with a shopping cart icon and text explaining that the API provides stocking information, price breaks, lead times, and minimum order quantities from over 100 stocking distributors. It includes a table:
 

Distributor	In Stock	Price @100
Digi-Key	23,240	\$0.75
Newark	34,672	\$0.73
Mouser	29,231	\$0.72
Arrow	27,987	\$0.71
- Lifecycle Status:** A section with a component icon and text explaining that the API helps engineers find out when a component is discontinued. It includes a table:
 

TI SN74S74N - Lifecycle Status	
Source:	Texas Instruments
Status:	Active
- Datasheets:** A section with a PDF icon and text explaining that the API provides access to millions of datasheets from an ever-growing database of over 20M parts. It includes a table:
 

TI SN74S74N - Datasheet	
Source:	Texas Instruments
Size:	217 KB
Pages:	2
Last Modified:	June 1, 2013

## Octopart Data Overview

Octopart has built a system to aggregate component data from multiple sources and keep it up-to-date as it changes. Currently, Octopart's database consists of 32 million unique physical components representing over 3000 component manufacturers. Octopart also gets daily data feeds from 117 stocking distributors representing 55 million offers on 24 million components.

### Data types

Currently Octopart tracks the following data types:

- Pricing and Availability
  - In stock quantity
  - Price breaks
  - International currencies
  - MOQ
  - Order multiples
  - Lead time
  - Packaging
- Datasheets
- Compliance Documents
  - RoHS statements
  - REACH statements
  - Materials sheets
  - Conflict mineral statements
- 3D Models
- Descriptions
- Technical Specs
- Lifecycle Status
- Images
- Categories
- Reference Designs

### Data sources

Octopart's system is able to take in data from multiple sources and organize it around physical components. In order to provide complete data transparency, Octopart publishes the source of each data point in the API response.

The following is an overview of Octopart's data sources. For more details please visit the Octopart API data documentation site (<http://octopart.com/api/data>).

#### Direct Feeds

Currently, Octopart gets direct datafeeds from 117 stocking distributors including all major global distributors of electronic components:

- Arrow



- Avnet
- Digi-Key
- Mouser
- Newark
- TTI
- Future
- Allied Electronics
- RS Components
- Premier Farnell
- element14 APAC
- And 108 more...

In addition, Octopart receives datafeeds from the following major component manufacturers:

- Texas Instruments
- Analog Devices
- Honeywell
- Microchip
- Molex
- STMicroelectronics
- Allegro
- Avago
- Integrated Device Technology
- Intersil
- NXP Semiconductors
- Fairchild Semiconductor
- Ecliptek
- Renesas
- Stackpole Electronics
- IDT
- CUI
- TE Connectivity
- Pericom
- Keystone
- Fideltronik
- TGS
- Recom Power
- Simex
- Kingston
- NIC Components
- LEMO
- Silicon Laboratories
- Weidmuller
- Crescent Frequency Products
- Semikron

- Viking Tech
- MPI
- Advanced Power Electronics
- Omron
- Mean Well
- International Rectifier
- Belden
- Panasonic
- National Semiconductor
- Gecko Drive
- Greenliant
- Consonance
- Creative System
- Coilcraft
- Aimtec
- Naina Semiconductor
- Falco Electronics
- RF Solutions
- Cologne Chip

### **Partners**

Some data comes from partners, e.g., TraceParts (<http://www.traceparts.com/>) contributes 3D models.

### **Web Crawling**

Octopart also does extensive web crawling to download data from manufacturer websites.

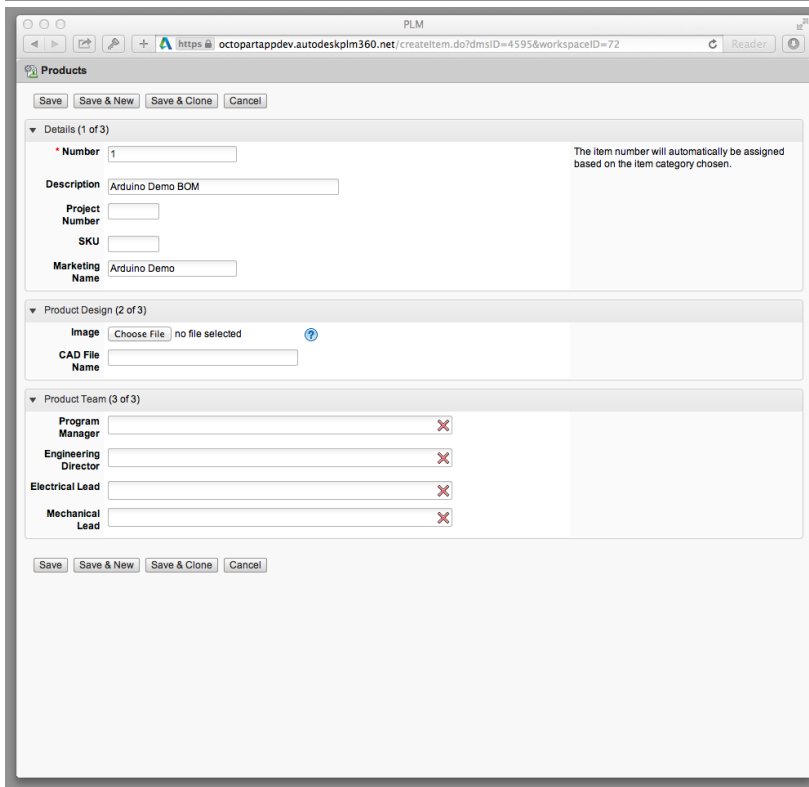
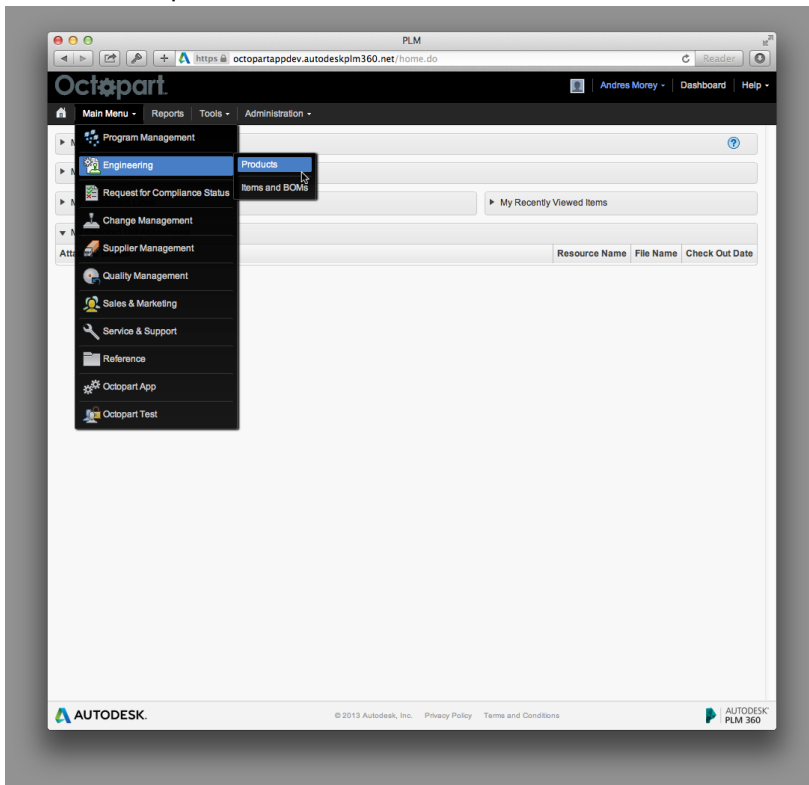
### **Crowd Sourcing**

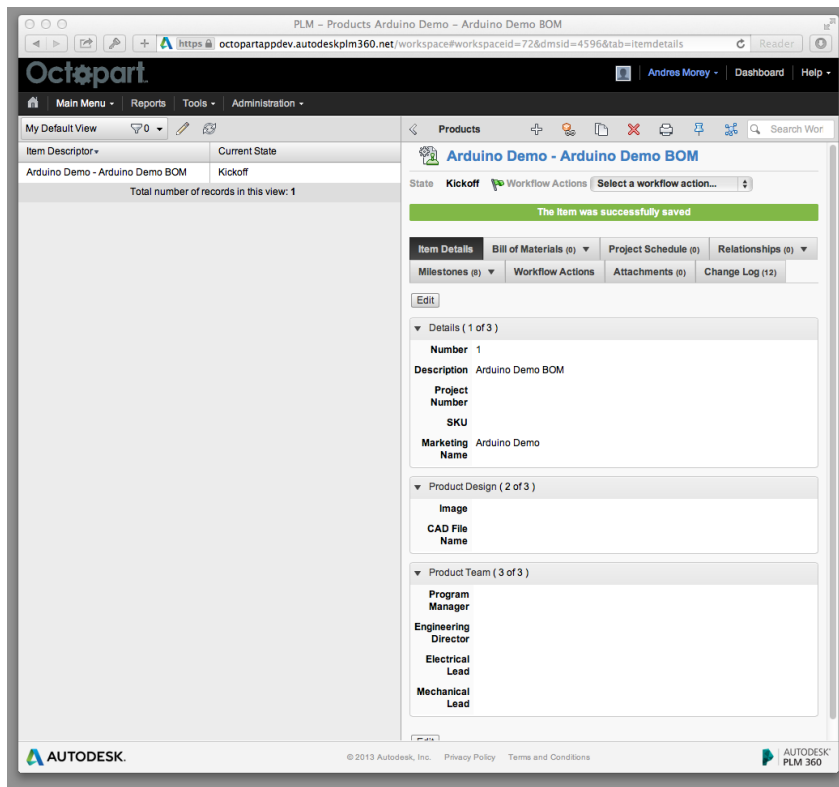
Another useful source of data is crowd sourcing from users. In addition to alerting us about data problems, many users have uploaded hard-to-find datasheets.

## **How to import Octopart data into PLM 360**

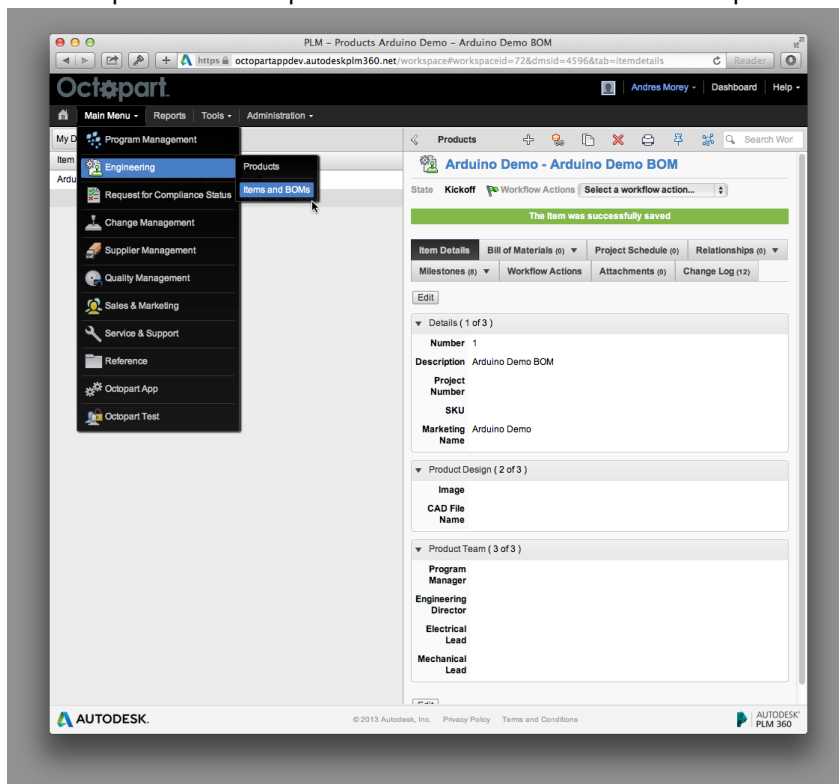
Using the Octopart API you can integrate Octopart data into any environment. For some popular tools such as Autodesk's PLM 360, Octopart publishes official apps which make it easy to import Octopart data without writing custom code. The following is a step-by-step guide for how to import Octopart data into PLM 360 using the Octopart App in the PLM 360 App Store:

### 1) Create a new product





2) Add components to the product in the Items and BOMs workspace



PLM

https://octopartappdev.autodeskplm360.net/createItem.do?dmsid=6&workspaceID=8

Items and BOMs

Save Save & New Save & Clone Cancel

Details (1 of 2)

Classification Component

Sub Class Capacitor

Classification Item

Number

Name Johanson - 500R14N220JV4T

Unit of Measure Each

Thumbnail Choose File no file selected

MFG Part Number

The item number will automatically be assigned based on the Class Code chosen.

Compliance Information (2 of 2)

Request for Compliance #

Request for Compliance Status

REACH RoHS Conflict Minerals

Status

Save Save & New Save & Clone Cancel

PLM - Items and BOMs 200-0032-000 - Johanson - 500R14N220JV4T [REV:w]

https://octopartappdev.autodeskplm360.net/workspace#workspaceid=8&dmsid=4597

Octopart

Andrea Morey Dashboard Help

Main Menu Reports Tools Administration

Components

Sub Class	Item Descriptor	Manufacturer	Manufacturer Part
Capacitor	200-0032-000 - J...		

Total number of records in this view: 1

Items and BOMs

200-0032-000 - Johanson - 500R14N220JV4T [REV:w]

Lifecycle Unreleased Revision Unreleased Effective Pending

The item was successfully created

Item Details Bill of Materials (0) Where Used (0) Attachments (0)

Requirements (0) Sourcing (0)

Associated Change Orders (0) Change Log (2)

Edit

Details (1 of 2)

Classification Component

Sub Class Capacitor

Number 200-0032-000

Name Johanson - 500R14N220JV4T

Unit of Measure Each

Thumbnail

MFG Part Number

Compliance Information (2 of 2)

Request for Compliance #

Request for Compliance Status

REACH RoHS Conflict Minerals

Status

Owner and Change Summary

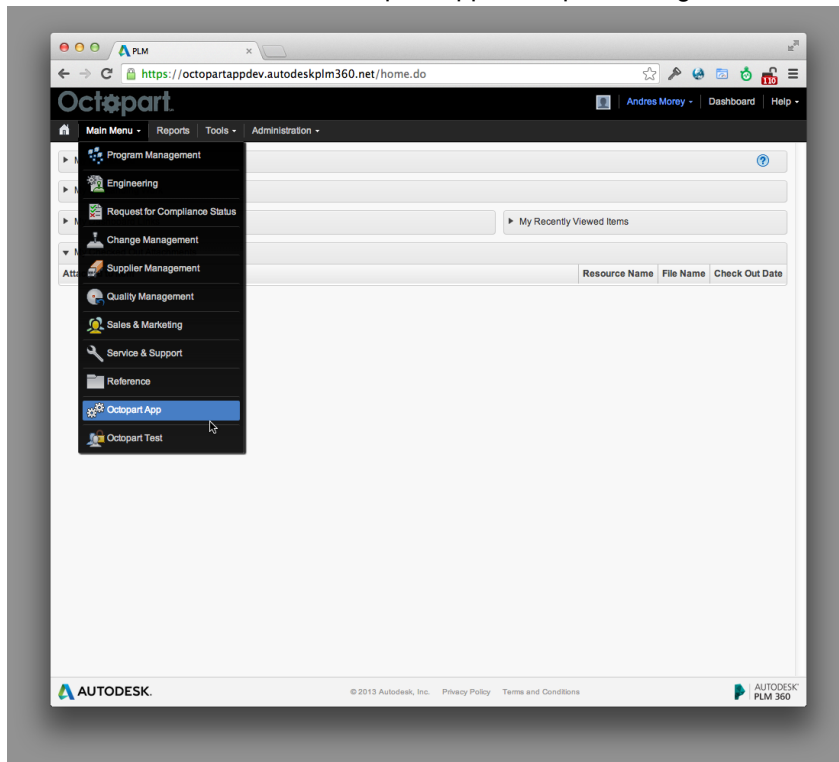
Owner: Andrea Morey (change)

AUTODESK

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AUTODESK PLM 360

- 3) Create a new record in the Octopart App workspace using the item MPN as a query



## Introduction to Octopart™ : Find Parts Fast

PLM

< > ↺ 🖨 + 🔗 https://octopartappdev.autodesklpm360.net/createItem.do?dmsId=&workspaceID=83 ⌂ Reader ⓘ

Octopart Components API v3

Save Save & New Save & Clone Cancel

▼ Details (1 of 3)

\* Manufacturer /  
Manufacturer  
Part Number  
Query

500R14N220JV4T

▼ Octopart Integration (2 of 3)

Last Octopart Lookup

Manufacturer

Manufacturer Part Number

Short Description

Image

Datasheet

Compliance Documents

Reference Designs

CAD Models

Manufacturer Site Links

DistributorSKUAuthorizedPackagingIn Stock1101001,00010,000Purchase

Distributors

▼ Admin (3 of 3)

Abort Message

Octo UID

Manufacturer Part Number

PLM - Octopart Components API v3 Johanson - 500R14N220JV4T

octopartappdev.autodesklm360.net/workspace#workspaceid=83&dmsid=4598

Reader

Octopart

Andres Morey | Dashboard | Help

Main Menu | Reports | Tools | Administration

My Default View | 0 | Octopart Components API v3 | Search Wor

Item Descriptor | Current State

Johanson - 500R14N... | [01] Octopart Look Up...

Total number of records in this view: 1

Octopart

Last Octopart Lookup: 12/02/2013

Manufacturer: Johanson

Manufacturer Part Number: 500R14N220JV4T

Short Description: Johanson Dielectric 22pF 50V SMD Ceramic Capacitor 0603 NPO 5% Ni Barrier w/100% Tin .035" TMAX RoHS

Image

Datasheet: Datasheet

Compliance Documents: RoHS Statement

Reference Designs

CAD Models

Manufacturer Site Links

	Distributor	SKU	Authorized	Packaging	In Stock	1	10	100	1,000	10,000	Purchase
Distributors	Arrow	500R14N220JV4T	Yes		20000					0.00840	Buy Now >>
	Garrett	500R14N220JV4T	Yes		3623			0.03800	0.01420	0.01030	Buy Now >>
	Digi-Key	709-1143-6-ND	Yes	Custom Reel	40139	0.17000	0.10500	0.03780	0.01365	0.01365	Buy Now >>
	Digi-Key	709-1143-1-ND	Yes	Cut Tape	40139	0.17000	0.10500	0.03780	0.01365	0.01365	Buy Now >>
	Digi-Key	709-1143-2-ND	Yes	Tape & Reel	36000					0.00882	Buy Now >>
	Chip One Stop	J0HA-0003021	Yes		20000					0.01830	Buy Now >>
	Quest	500R14N220JV4T	No		45000	0.06000	0.06000	0.04000	0.01000	0.00600	Buy Now >>
	Harry Krantz	500R14N220JV4T	No		RFQ						Buy Now >>
	Nexus Electronics	500R14N220JV4T	No		RFQ						Buy Now >>
	Karl Kruse	500R14N220JV4T	No		RFQ						Buy Now >>

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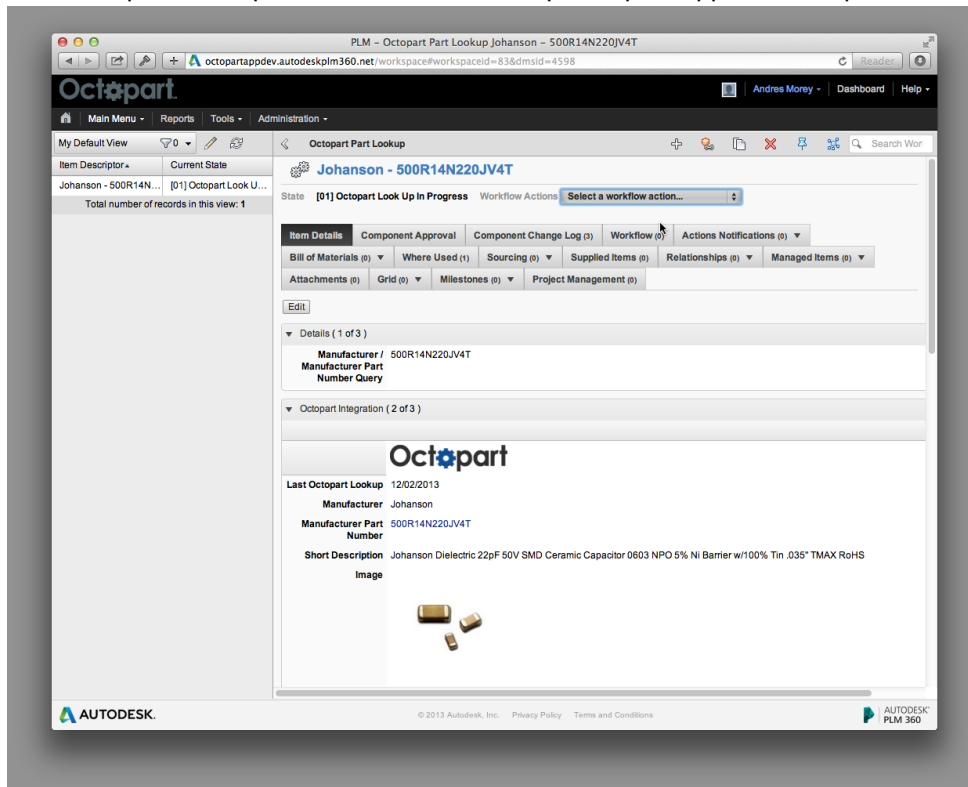
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4) Create connection between Octopart App record and Item record

The first screenshot shows the Octopart web application interface. The browser address bar displays the URL: `https://octopartappdev.autodeskplm360.net/workspace#workspaceid=8&dmsid=4597&tab=bomviewnested`. The page title is "PLM - Items and BOMs 200-0032-000 - Johanson - 500R14N220JV4T [REV:w]". The main content area shows the "Items and BOMs" section for the item "200-0032-000 - Johanson - 500R14N220JV4T [REV:w]". The "Lifecycle" is "Unreleased", "Revision" is "Unreleased", and "Effective" is "Pending". The "Default View" is set to "Released Revisions". A table with columns: #, Descriptor, Revision, Lifecycle, Quantity, Units, Ref Des, BOM, Find, Rofa/Reach, and Su Nu is displayed. The table contains one row with the following data: # 0.0, Descriptor 200-0032-000 - Johanson - 500R14N220JV4T [REV:w], Revision WIP, Lifecycle Unreleased, Quantity -, Units -, Ref Des -, BOM -, Find -, Rofa/Reach -, and Su Nu -. The second screenshot shows the same interface with a modal dialog box titled "Add Items to Bill of Materials" open. The dialog box contains a search bar and a table with columns: Select, Name, State, and Workspace. The table contains two rows: one with a checkbox, Name "200-0032-000 - Johanson - 500R14N220JV4T [REV:w]", State "Unreleased", and Workspace "Items and BOMs"; and another with a checked checkbox, Name "Johanson - 500R14N220JV4T", State "[01] Octopart Look Up In Progn Octopart Part Looki", and Workspace. The dialog box has "Create New", "Next", and "Cancel" buttons.

## 5) Use “Octopart Lookup” workflow action to keep Octopart App records up-to-date



## Emerging trends in access to component data

**Cloud:** In parallel with more part data becoming available online, engineering firms are starting to adopt cloud tools to manage key workflows. While there continues to be debate around challenges in cloud computing, the ease and speed of access and collaboration makes a good case for managing part data in the cloud. As more electronic design automation (EDA), product lifecycle management (PLM), enterprise resource planning (ERP) tools move to the cloud, managing part data seamlessly within and across these tools becomes increasingly common.

**Big data:** More engineering firms are creating data-driven internal processes to be more competitive and to eliminate inefficiencies. In response to higher demand for part data, component manufacturers and suppliers are exposing more information via their websites and other online sources. Part data is more easily accessible and affordable today, compared to when data used to be only available through paper catalogs or expensive proprietary database providers.

## Conclusion

In this class, we have covered:

- The challenges related to accessing part data
- Octopart's role and how we are addressing these challenges
- How to use Octopart and the Octopart app within PLM 360

- Overview of data coverage and data transparency in Octopart's database
- Emerging trends in access to part data

We hope you will apply what we have discussed in your design, sourcing and manufacturing processes, and be ahead of the curve as the industry heads toward open and realtime access to part data.