

CIP™ Version 5.0 Release Notes

About the CIP™ 5.0 Release

The Component Information Portal offers Cadence® OrCAD® Capture CIS users a comprehensive, "off-the-shelf" CIS management environment that includes distributor integration and a component library with a pre-defined set of fields.

CIP 5.0 provides tighter integration with Cadence OrCAD Capture CIS to streamline your design flow. CIP 5.0 also has been integrated with EMA EDABuilder®, a Library Builder tool, to minimize the time to find your part to placing the part onto your schematic.

CIP 5.0 brings many new ease of use and administration features and enhancements. These release notes summarize the changes in 5.0. Consult the user guide for detailed documentation on features.

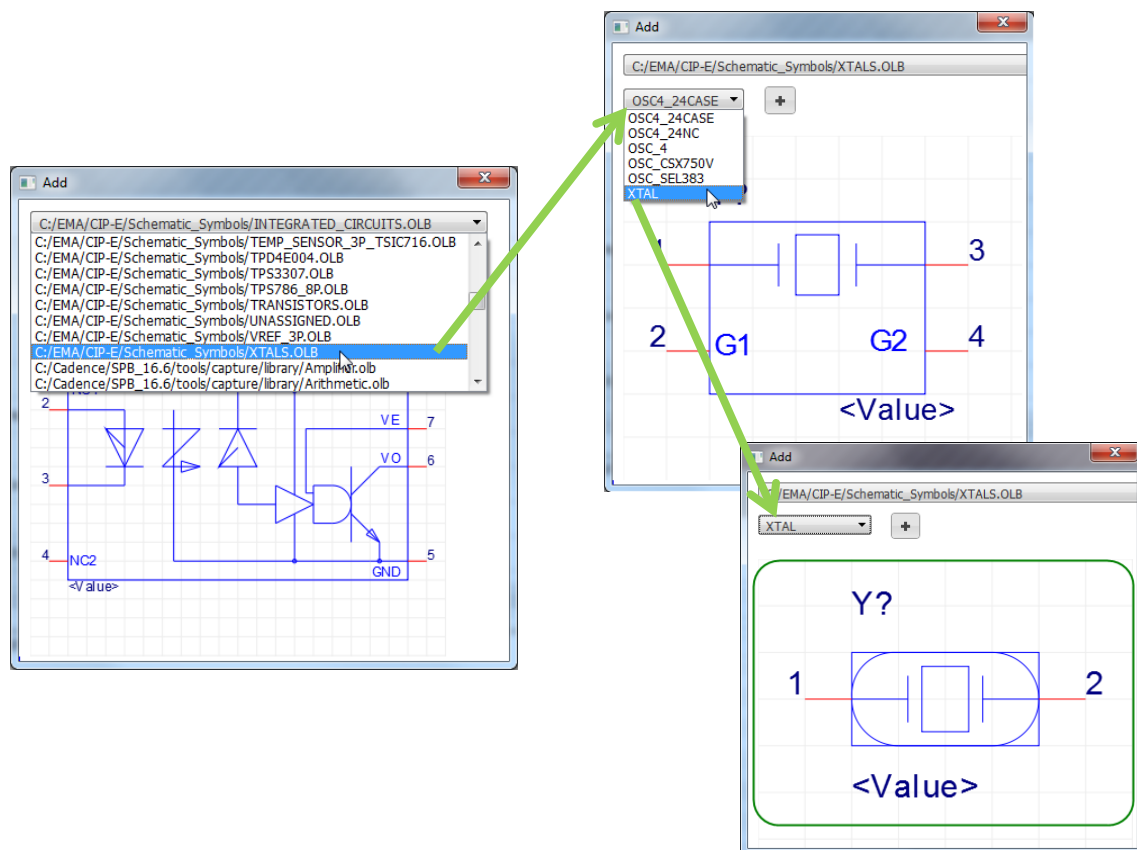
Prerequisites

- To take advantage of the capabilities offered with the integration of CIP, Cadence OrCAD Capture CIS and Library Builder, you will need to have the following client configuration:
 - Cadence OrCAD Capture CIS 16.6 ISR 28 or higher
 - EMA EDABuilder 3.2 or higher
 - Windows Vista SP2, Windows 7 SP1, 8.0, or 8.1

New Features

- **Select schematic symbols from OLBs or previous values when updating part information–**

With CIP 5.0 running inside Capture, you can now preview symbols in your library before mapping them to a component part. After you find a desired part using distributor search and add it to your CIP database, you don't have to rely on remembering the symbol by name to map your symbol. You can use CIP to preview symbols in your libraries. You can preview and add as many logical representation of the symbol as needed. You can add symbols from Cadence library as well.



When CIP is running outside of Capture, you can select from a list of any previously entered symbol names. Symbols and footprints can be added the same way after typing a comma.

Description	IC, Logic, AND, 74HC08, SOIC-14
PCB Footprint	SOIC127P600X145-14N,S
Number of Pins	SOIC127P1028X265-20N SOIC127P1030X265-28N
Operating Temperature Minimum	SOIC127P1032X265-16AN
Package Height	SOIC127P1032X265-16AN
Company Part Status	SOIC127P1032X265-20AN SOIC127P1032X265-20N
Propagation Delay	SOIC127P1032X265-24AN SOIC127P1032X265-24N
Number of Channels	
Supply Voltage	0 - 6.0 V
Output Voltage	

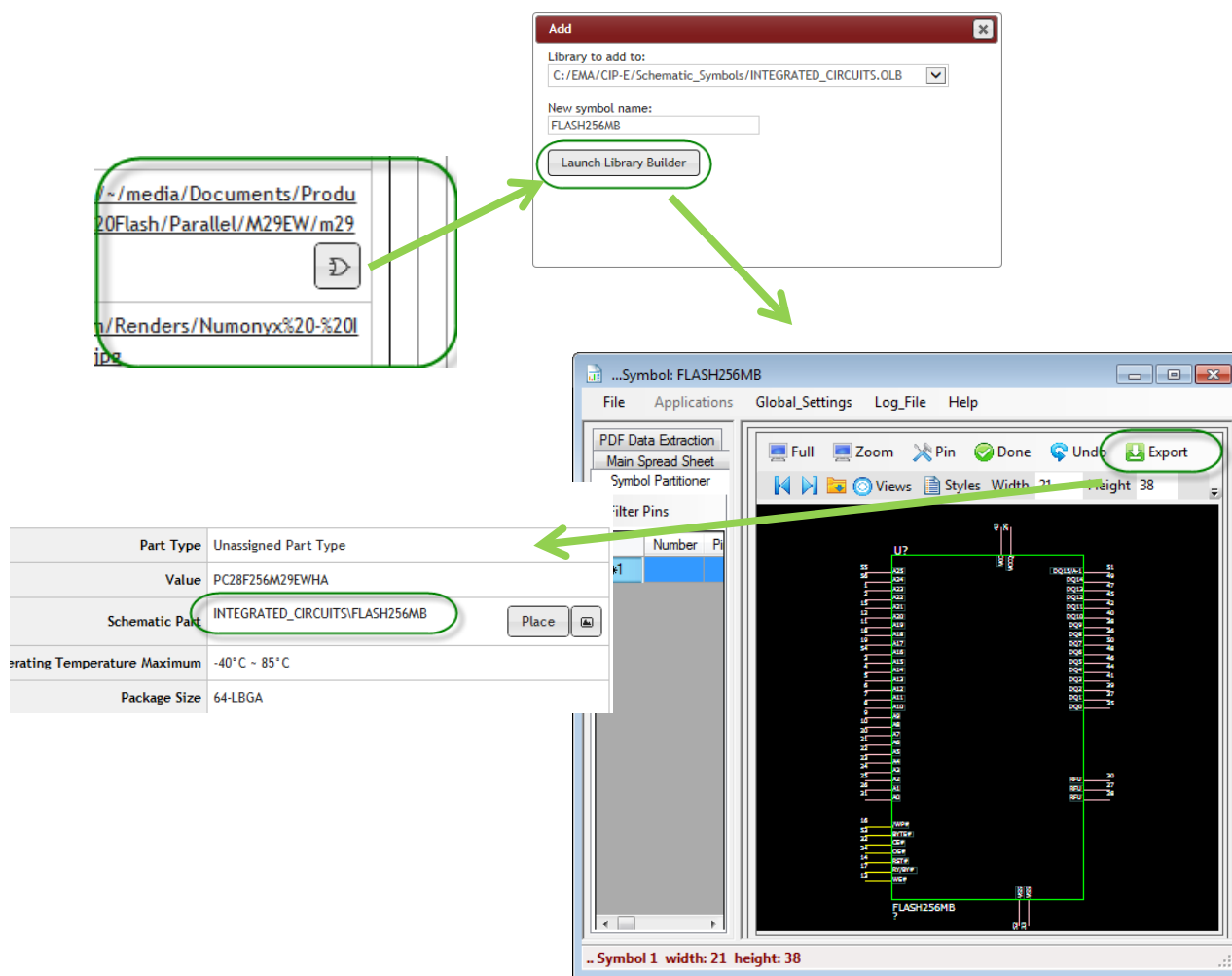
Part Type	EMA\SMD\Logic\AND
Value	74HC08
Schematic Part	74
Operating Temperature Maximum	74-126_14P 74-153_16P 74-161-3_16P 74-162244_48P 74-162245_48P 74-162374_48P 74-16240_48P 74-16244_48P 74-16245_48P
Package Size	
Package Type	
Rated Power	
Supply Current	
Function	
Signal to Noise Ratio	
Number of Gates	4

- Integration of Library Builder with CIP for creation of new symbols –**

Library Builder can be launched directly from CIP to create a new symbol. If CIP is opened inside Capture, after you add a temp part from distributor search, you will be able to start Library Builder from an icon in the CIP datasheet link. Library Builder will open to the PDF document link downloaded from the distributor

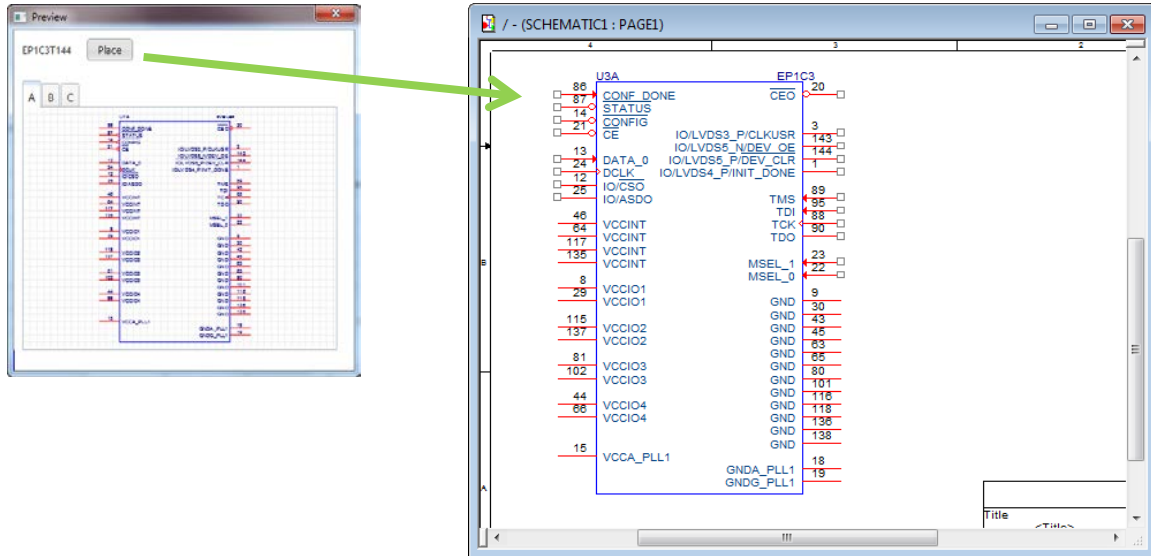
search. You can create the symbol with Library Builder and then export the symbol. The symbol name is automatically updated in CIP when completed.

**** Note:** EDABuilder is a separate software installation that may be obtained through EMA Design Automation, Inc.



- **Integration into Capture for Part Preview and Place Part –**

The capability to place a part from CIP directly into Capture has been added to CIP 5.0. You can take advantage of the easy to use search to find a part in CIP. After finding the part in CIP, you can place the symbol right onto your Capture schematic.



- **Template for Advanced Export –**

If you have a standard template of parameters or manufacturer parts that you would like to use to export from CIP, you can define and save the template. When you have a BOM that you need to get additional information from CIP, you only need to select from any of your saved templates. This ensures consistency of BOM across groups.

- **Restriction of field entry based on roles –**

In addition to allowing various users to be able to perform certain tasks, permissions and visibility on fields can now be customized for each role. If you would like to only allow various roles to be able to edit or view certain fields, you can customize each role for your specific process.

For example, if you have librarians who create and modify symbols and footprints, the Administrator can remove edit permission on those fields to all other users.

- **Temp parts tab enhancement – Add fields to be displayed**

Additional fields can be viewed in the Temporary Parts tab. Each user can configure this tab to add any field from the components tables. Once configured, these columns will show data corresponding to the temporary part as it is updated in the database.

The screenshot shows the 'Temporary Parts' configuration window. On the left, there is a list of fields that can be added to the display. On the right, there is a table showing the current configuration. Green arrows point from the fields in the list to the corresponding columns in the table.

Table	Original TMP Number	Assigned PART_NUMBER	Creation Time	Username	Description	PCB Footprint	Schematic Part
ICs	TMP-5		November 25, 2013, 11:46:31	Admin	Operational Amplifiers - Op Amps Dual 1.8V RRIO Op Amp	UNASSIGNED	UNASSIGNED
Resistors	TMP-3		November 21, 2013, 16:21:17	Admin	Digital POT 10K 1CH SOT23-6	UNASSIGNED	UNASSIGNED

- **Export part data to Excel or CSV**

All data associated with a part can be exported from a component page. After viewing a part, you can export all fields to an Excel or CSV formatted file. This can be used to build reports.

Transistors EMA-00004861

Part Information History

PART CSV - Top Headers 361
 CSV - Left Headers ET, P-Channel, FQD7P20, -200
 D Excel - Top Headers MD
 PCB Excel - Left Headers TO230P950X240-3N

Part Type EMA\MOSFET\SMD
 Value FQD7P20
 Schematic Part MOSFET_I_EP_GSD
 Operating Temperature Maximum 150 C
 Package Size TO-252/DPAK
 Package Type SMD
 Number of Pins 3
 Operating Temperature Minimum -55 C
 Package Height 2.40 mm
 Company Part Status
 Rated Current -5.7 A
 Collector Current Maximum
 Drain Gate Voltage

	A	B
1	PART NUMBER	EMA-00004861
2	Part Type	EMA\MOSFET\SMD
3	Description	XSTR, MOSFET, P-Channel, FQD7P20, -200 V, -5.7 A, SMD
4	Value	FQD7P20
5	PCB Footprint	TO230P950X240-3N
6	Schematic Part	MOSFET_I_EP_GSD
7	Number of Pins	3
8	Operating Temperature Maximum	150 C
9	Operating Temperature Minimum	-55 C
10	Package Size	TO-252/DPAK
11	Package Height	2.40 mm
12	Package Type	SMD
13	Company Part Status	
14	Rated Voltage	-200 V
15	Rated Current	-5.7 A
16	Rated Power	2.5 W
17	Collector Current Maximum	
18	Collector-Emitter Voltage	
19	Drain Gate Voltage	
20	Drain Saturation Current	
21	Drain Source On Resistance	0.69 Ohm
22	Drain Source Saturation Voltage	-200 V
23	Gate Source Voltage	+/-30 V
24	Junction Temperature	-55 - 150 C
25	Polarity	P-Channel

EMA-00004861 Manufacturers Distributors

New Enhancements

- **Search enhancements**

Search capabilities have been enhanced in CIP 5.0.

Enhanced complex queries

The standard search has been enhanced to enable complex queries. You can still build the same type of queries as before. Parentheses can be added to specify the behavior for the order of operations on your search.

Search history

Search through history is available in CIP 5.0. You can specify a date range to determine which parts have been added, modified or deleted and by whom.

Search Part Type History Search

Action **Added** Modified Deleted

From 11/19/2013 To 11/25/2013 User Admin search

Matches: 3

Table	PART_NUMBER	Description	User	Date
Resistors	TMP-3	Digital POT 10K 1CH SOT23-6	Admin	11/21/2013 4:21:17 PM
ICs	TMP-5	Operational Amplifiers - Op Amps Dual 1.8V RRIO Op Amp	Admin	11/25/2013 11:46:32 AM
ICs	TMP-10	IC OPAMP JFET 3MHZ 8SOP	Admin	11/25/2013 11:50:44 AM

Keyword search at top

A quick keyword search has been added to the top bar of CIP. Regardless of what screen you are in, you can type a string for your search and CIP will return the results of any parts containing that string.

- **Auto Part numbering can be set up by table**

The auto generated part numbering has been enhanced to allow configuration of different prefixes per table. If you choose to use the built in auto-number feature of CIP, you can configure each table to have a different prefix.

☒ Enable Incremental Part Numbers

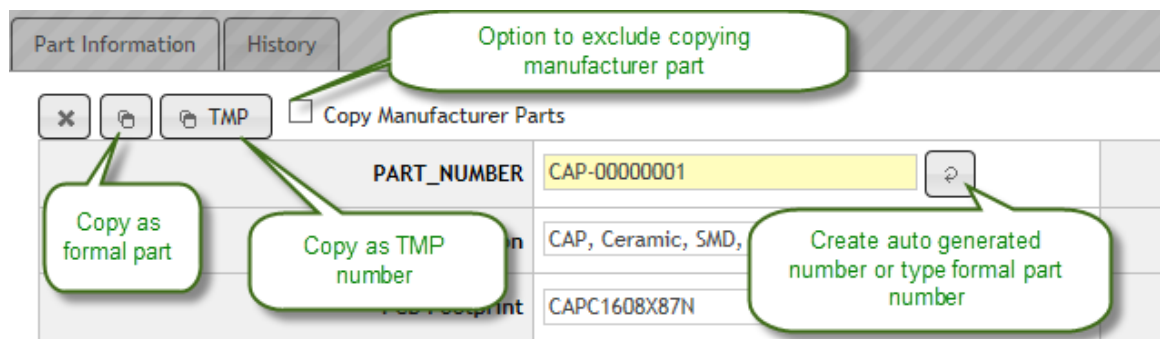
Incremental Part Number Configuration			
	Category	Prefix	Digit Width
Edit	Capacitors	CAP-	8
Edit	Connectors	CON-	8
Edit	Crystals and Oscillators	XTL-	8
Edit	Diodes	DIO-	8
Edit	ICs	ICS-	8
Edit	Inductors	IND-	8
Edit	Misc	MIS-	8
Edit	Relays	RLY-	8
Edit	Resistors	RES-	8
Edit	Switches	SW-	8
Edit	Transformers	XFMR-	8
Edit	Transistors	XSTR-	8

Enable auto numbering

Prefixes can be set differently for each table

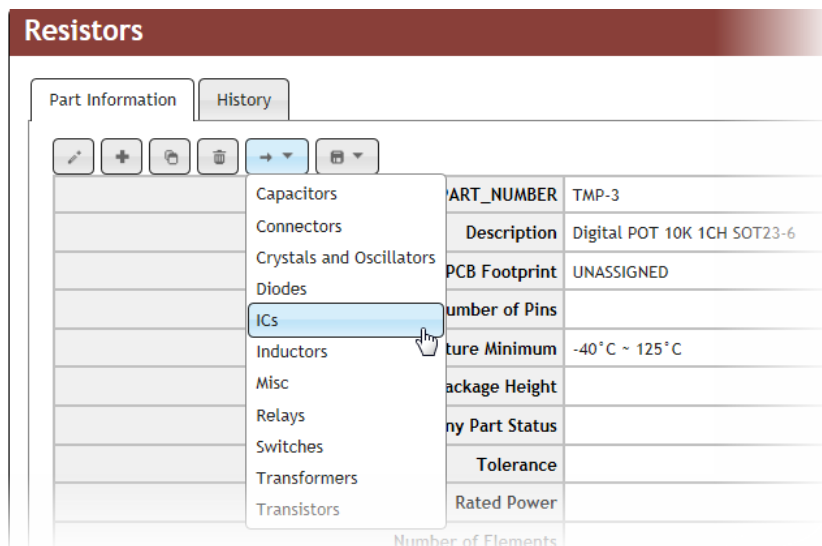
- **Enhancements to Copy**

Enhancements have been made for copying parts. When a copy of a part is made, you have the choice to have the copy created as a temp or formal number. The data for all the attributes can be modified before you save the part. You have the option to exclude the manufacturer parts from being copied. After you have made all your edits, you can save the part as a temp or formal part where you enter your own part number or formal part with an auto-generated part number. When you save the part, the auto-generated number will pull the next available unique part number.



- **Move parts from one table to another**

If you create a part or add a part as Temp part to an incorrect table by mistake, you no longer have to remove the part and then create the part in the correct table. You can bring the part up and select the table that you want the part to be moved to.



- **Data entry enhancements –**

Fields in the data entry screen of parts can be configured by the Admin. An Admin can configure fields as pick lists or standard text. When configured as a pick list, only the pick list options configured by the Admin will be allowed.

Default values can be set for any field. When configured, fields that have default values will be auto populated with those values when new parts are created. Users can change the values if needed.

When entering data in any of the fields, values in the database containing what you have typed will be shown in a drop down list. You can select from one of those values or enter a new value. This will help you with consistency of data entered in your database.

- **Transfer parametric data from a distributor search to an existing part**

The distributor search has been enhanced to allow transfer of parametric data from the distributor part to an existing part. After finding a distributor part, you will have the option to overwrite your existing parametric data with new data from the distributor part. The manufacture data and distributor data will be added and parametric data will be updated.

Table	Capacitors	▼
Action	Add to Existing Part	▼
Part Number	EMA-00000375V22	▼
☒ Overwrite Component Data		
Add		

- **Enhancement to display of part data**

You can view the component table by table or view all parts. When viewed as all parts and you click next part, the next number in the sequence will be displayed regardless of the table in which the part belongs. The sort order for next can be changed by user to be ascending or descending.

The manufacturer detailed data can be collapsed. The distributor information for each part is shown in a separate block from the manufacturer part details. Multiple distributor part numbers from a single distributor can be added to the same manufacturer part.

TDK Corporation C2012X7R2A103K085AM	AVX 08051C103KAT4A	AVX 08051C103KAT7A	AVX 08051C103KAT9A	Add Manufacturer Part
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Manufacturer Part Data	History
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Manufacturer Data
Distributor Fields

	Distributor	Distributor PN	Quantity	Cost	Data Last Updated
	Mouser	810-C2012X7R2A103KT5	27918	USD 0.210 (1-9), 0.090 (10-99), 0.054 (100-999), 0.046 (1000-3999), 0.034 (4000-7999), 0.032 (8000-23999), 0.031 (24000-47999), 0.029 (48000-99999), 0.024 (100000+)	Nov 27 2013 10:54AM
	Digi-Key	445-6052-1-ND	1895	\$ 0.22 (1-9), 0.149 (10-99), 0.0756 (100-249), 0.0612 (250-499), 0.054 (500-999), 0.0459 (1000+)	Nov 27 2013 11:27AM
	Digi-Key	445-6052-6-ND	1895	\$ 0.22 (1-9), 0.149 (10-99), 0.0756 (100-249), 0.0612 (250-499), 0.054 (500-999), 0.0459 (1000+)	Nov 27 2013 11:29AM

- Enhancement of fields viewable from CIS Explorer –

In CIS explorer, you can select the CIP link to view the part details. When you click the link, CIP will be opened to the part inside your default browser. If you haven't logged in, you will be asked to log in. The manufacturer, manufacturer part number and datasheet fields corresponding to the left most part in CIP will now be available in CIS. You can update your .DBC configuration to transfer these fields to designs.

TDK Corporation C2012X7R2A103K085AM	AVX 08051C103KAT4A	AVX 08051C103KAT7A	AVX 08051C103KAT9A	Add Manufacturer Part
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Manufacturer Part Data	History
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Manufacturer Data
Table

Property	Database Contents	Visible	Table	PART_NUM	Man	Manufacturer PN	Manufacturer	Datasheet	RoHS Comp	Digikey P
ALT_SYMBOLS		☒	1	CIS Manufacturer Par	EMA-000003	TDK	C2012X7R2A103K085AM	http://www.tdk.com	Y	
Rated Voltage	100 V	☒	2	CIS Manufacturer Par	EMA-000003	AVX	08051C103KAT9A	DatasheetPath	Yes	
Tolerance	10 %	☒	3	CIS Manufacturer Par	EMA-000003	AVX	08051C103KAT4A	DatasheetPat	Yes	
Temperature Coeffici	X7R	☒	4	CIS Manufacturer Par	EMA-000003	AVX	08051C103KAT7A	DatasheetPat	Yes	
PCB Footprint	CAPC2012X71N	☒								

Table	PART_NUMBER	Part Type	Description	CIP Link	Value	Manufactur	Manufacturer PN	Datasheet	PCB Footpri	Schematic	Number of
capacitors	EMA-00000128V2	EMA/Ceramic	CAP, Cerami	http://localhost/CIP-E	0.1 uF	Kemet	C0805C104J5RAC	DatasheetPathKemet	CAPC2012X	CAP	2
capacitors	EMA-00000137V2	EMA/Ceramic	CAP, Cerami	http://localhost/CIP-E	1.0 uF	Kemet	C0805C105K4RAC	DatasheetPathKemet	CAPC2012X	CAP	2
capacitors	EMA-00000160V2	EMA/Ceramic	CAP, Cerami	http://localhost/CIP-E	30 pF	AVX	08055A300MAT2A	DatasheetPathAVX	CAPC2012X	CAP	2
capacitors	EMA-00000375V2	EMA/Ceramic	CAP, Cerami	http://localhost/CIP-E	0.01 uF	TDK	C2012X7R2A103K085AM	http://www.mouser.com	CAPC2012X	CAP	2
capacitors	EMA-00000376V2	EMA/Ceramic	CAP, Cerami	http://localhost/CIP-E	0.01 uF	AVX	08051C103KA72A	DatasheetPathAVX	CAPC2012X	CAP	2
capacitors	EMA-00000377V2	EMA/Ceramic	CAP, Cerami	http://localhost/CIP-E	0.01 uF	AVX	08051C103KAT2A	DatasheetPathAVX	CAPC2012X	CAP	2

- CIS View of Manufacturer Relational Table Updated with Visible Fields

When you update the visibility or display names of fields for the manufacturer relational table, the view for CIS is also updated. This also reduces the number of fields displayed.

Databases changes (Update to .DBC configuration file required)

To enable new features added to this release, database changes were made. The following changes will require you to update your .DBC configuration file before bringing up CIS Explorer.

- Additional user fields to manufacturer table
- Additional user fields to component tables
- Multiple part numbers from the same distributor can be associated to the same manufacturer part - Distributor and distributor part numbers are identified for a manufacture part.
- ALT_SYMBOLS, CIP Link, Manufacturer, Manufacturer PN and Datasheet added to each table for CIS explorer