PCB Footprint Expert

SAVES UP TO *90%* TIME ON NEW PARTS & *99.9%* ON REBUILDING ENTIRE LIBRARIES!

Software screenshot: PCB Footprint Expert

Footprint Name	Physical Description	Case Code	Manufacturer	Part Number	Logical Description	Link
QFP80P900X900X120-32	Quad Flat Pack (QFP), 0.80 mm pitch;square,8 pin X 8 pin,9.00 mm L	PJT (S-PQFP-N32)	TI	DDC112Y/250	Dual Current Input 20-Bit Analog-To-Digital C...	http://www.ti...
QFP80P900X900X160-33	Quad Flat Pack (QFP with Tab), 0.80 mm pitch;square,8 pin X 8 pin,9...	VFP (S-PQFP-G32)	TI	DRV591VFP	High-Efficiency PWM Power Driver	http://www.ti...
RESC0603X26	Resistor, Chip;0.60 mm L X 0.30 mm W X 0.26 mm H body	Inch 0201, Metric 0603	Yageo	RC0201FR-071KL	General Purpose Chip Resistor RC0201 1% 1k	http://www.ya...
RESC1005X40	Resistor, Chip;1.00 mm L X 0.50 mm W X 0.40 mm H body	Inch 0402, Metric 1005	Yageo	RC0402FR-071KL	General Purpose Chip Resistor RC0402 1% 1k	http://www.ya...
RESC1608X55	Resistor, Chip;1.60 mm L X 0.80 mm W X 0.55 mm H body	Inch 0603, Metric 1608	Yageo	RC0603FR-071KL	General Purpose Chip Resistor RC0603 1% 1k	http://www.ya...
RESC2012X60	Resistor, Chip;2.00 mm L X 1.25 mm W X 0.60 mm H body	Inch 0805, Metric 2012	Yageo	RC0805FR-071KL	General Purpose Chip Resistor RC0805 1% 1k	http://www.ya...
RESC3116X65	Resistor, Chip;3.10 mm L X 1.60 mm W X 0.65 mm H body	Inch 1206, Metric 3216	Yageo	RC1206FR-071KL	General Purpose Chip Resistor RC1206 1% 1k	http://www.ya...
RESC3146X65	Resistor, Chip;3.10 mm L X 4.60 mm W X 0.65 mm H body	Inch 1218, Metric 3246	Yageo	RC1218JK-07100RL	General Purpose Chip Resistor RC1218 5% 1...	http://www.ya...
RESC5025X65	Resistor, Chip;5.00 mm L X 2.50 mm W X 0.65 mm H body	Inch 2010, Metric 5025	Yageo	RC2010JK-071KL	General Purpose Chip Resistor RC2010 5% 1k	http://www.ya...
RESC6331X65	Resistor, Chip;6.35 mm L X 3.10 mm W X 0.65 mm H body	Inch 2512, Metric 6332	Yageo	RC2512JK-071KL	General Purpose Chip Resistor RC2512 5% 1k	http://www.ya...
RESCAV63P320X160X65-10	Chip Array, 4 Side Concave, 0.635 mm pitch;rect.,1 pin X 4 pin,3.20 m...	EXBD,1206	Panasonic	EXBD10C103J	EXBD Series Chip Resistor Networks, 10K	http://industria...
RESCAV80P160X160X75-4	Chip Array, 2 Side Concave, 0.80 mm pitch;4 pin,1.60 mm L X 1.60 m...	CAT16-J2	Bourns	CAT16-103J4LF	CAT 16 Series - Chip Resistor Array, 10K	http://www.bo...
RESCAV80P325X165X70-8	Chip Array, 2 Side Concave, 0.80 mm pitch:8 pin,3.25 mm L X 1.65 m...	Inch 1206, Metric 3216	Panasonic	EXB-V8VR000V	Resistor Array 0.0 OHM 4 Resistors 1206	http://www.pa...

File Name: C:\Program Files (x86)\PCB Libraries\FPX 2012\Libraries\SAMPLE.fpx — Library Size 201

Default Source: C:\Program Files (x86)\PCB Libraries\FPX 2012\DefaultPreferences.dat
User Source: C:\Program Files (x86)\PCB Libraries\FPX 2012\Tom.dat

Categories: Aluminum Electrolytic Capacitor; Ball Grid Array (BGA), 0.40 mm pitch,rect.; Ball Grid Array (BGA), 0.40 mm pitch,square; Ball Grid Array (BGA), 0.50 mm pitch,rect.; Ball Grid Array (BGA), 0.50 mm pitch,square; Ball Grid Array (BGA), 0.65 mm pitch,rect.; Ball Grid Array (BGA), 0.75 mm pitch,rect.; Ball Grid Array (BGA), 0.80 mm pitch,rect.; Ball Grid Array (BGA), 0.80 mm pitch,square; Ball Grid Array (BGA), 1.00 mm pitch,rect.; Capacitor, Non-Polarized, Chip; Capacitor, Polarized, Molded Body; Chip Array, 2 Side Concave, 0.80 mm pitch; Chip Array, 2 Side Concave, 1.27 mm pitch; Chip Array, 2 Side Convex, 0.50 mm pitch; Chip Array, 2 Side Convex, 0.76 mm pitch; Chip Array, 4 Side Concave, 0.635 mm pitch; Chip Array, 4 Side Concave, 0.80 mm pitch; Chip Array, 4 Side Concave, 1.27 mm pitch; Column Grid Array (CGA), 1.00 mm pitch,squar; Crystal; Diode, Dual Flat No-Lead (DFN 2 Pin); Diode, Metal Electrode Face (MELF)

CHAOS SIMPLIFIED!

PCB Footprint EXPERT version 2012 — IPC-7351 Compliant
- Effortlessly create top quality PCB libraries!
- More timely and on-budget project!
- Insanely rapid response and support!
- Commonly-accepted throughout Industry

Windows 8-ready

ROTATIONS

ENVIRONMENTS
IPC, Manufacturer Recommended, User-Defined

PAD SHAPES
Rectangle — *Oblong* — *D-Shape* — *Rounded Rectangle*

FOOTPRINT ELEMENTS

- Silkscreen Pin 1 Polarity (absence of Silkscreen)
- 3D Model Outline Maximum Body Size
- Thermal Pad
- 5 Mil (0.12 mm) Silk to Land Gap Automatic DRC Checked
- Assembly Pin 1 Polarity
- 8 Mil (0.20 mm) Thermal to Land Gap DRC Checked
- Perfect IPC-7351 Land Size Calculation
- 6 mil (0.15 mm) Land to Land Gap DRC Checked
- 1:1 Scale Paste Mask on all Terminal Lands
- Center of Gravity Origin
- 2 Ref Des – Silkscreen & Assembly Drawing
- 1:1 Solder Mask size on all Lands
- Nominal Silkscreen Outline Line Width 5 Mil (0.12 mm) visible after assembly
- 50% Paste Mask Stencil Reduction on Thermal Pad Broken Into Squares
- IPC-7351 3-Tier Placement Courtyard External Boundary with 1 Mil (0.01 mm) line width
- Assembly Outline Mapped to Maximum Component Body with 5 Mil (0.12 mm) Line Width
- Name

VARIOUS DIMENSIONS

DYNAMIC, HI-RES LIBRARIES

Easily reconstruct your *entire* PCB library with totally different rules in seconds! Our "High-Resolution" 10µm technology lets you maintain high accuracy *and* flexibility.

UPGRADE ENTIRE LIBRARY

✓ Migrate to an IPC-compliant library
✓ Over 3,200 unique component packages
✓ Transition from Inch to Metric
✓ Easily apply consistency to libraries
  - People with various skills created library
  - Different rules used over time
  - Library developed over many years
✓ CAD Library quality must be improved

MULTIPLE CAD FORMATS

Build consistent quality, eliminate redundant work, and avoid costs of migrating libraries – build it all in ONE tool regardless the format!

Mentor Graphics · cadence · Altium
ZUKEN · INTERCEPT *pure engineering*
PULSONIX · NATIONAL INSTRUMENTS

Coming soon:
Ultiboard, P-CAD, CR-5000, McCAD, VUTRAX, Proteus, AutoTRAX, CADint, IPC-2581, and more…

Contact us for FREE demos and training!

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PCB Footprint Expert

MASS-MODIFY

Modify any of hundreds of preferences and rebuild your *entire* library in seconds.

- ✔ Units (Mils, Micrometers, Inches and Millimeters)
- ✔ Pad Shape (Rectangle or Rounded, Oblong, D-Shape)
- ✔ Rotation (Pin 1 Up, Left, Right or Down)
- ✔ Origin (Centric or Pin 1)
- ✔ Environment Level (Least, Nominal, Most, User)
- ✔ Silkscreen Line Width and Pad to Silkscreen Gap
- ✔ Minimum Pad to Pad Gap or Pad to Thermal Pad Gap
- ✔ Paste Mask Reduction for Thermal Pads
- ✔ Solder Mask Swell or Solder Mask Defined Pads
- ✔ Map Silkscreen and Assembly Outlines to Nominal or Maximum Component Body

MANAGE

Central repository of PCB library data.

Easily manage all library data, created by different people with different skills and tendencies, in a central location on your network. All have easy access to browse, search, and quality control the data files with the FREE Footprint Expert.

MAINTAIN

Accurate library data at your fingertips.

Add new component package and logic data to your database in a snap! Sort data by any attribute field - predefined or custom-made! Or just leave the data organized in one of dozens of component families.

MANUFACTURE

Minimize cost of manufacture.

By creating high quality designs the first time, you reduce the work and costs associated with design re-spins.

MASTER

Quickly become an expert at PCB libraries.

Regardless your skill level, with PCB Libraries backing you up, you create high-quality PCB libraries that look like were created by professionals with decades of experience. Well, in a sense - *they were*!

MICRO/MACRO FOCUS

Establish specific library parameters across division.

Regardless your management requirements, you can easily establish and adjust constraints on rules and preferences so everybody builds consistent quality parts that look like were created by a single professional designer.

MIGRATE

Migrate libraries to a different CAD format much faster.

The PCB Footprint Expert interfaces with popular CAD tools. Need your libraries in a different CAD format? Open the "master" library in the Footprint Expert and export!

MAXIMIZE

Max-out both quality *and* efficiency.

If you dare, the Footprint Expert promises to help you maximize both. That's right – you don't have to increase one at the cost of the other.

MONETARY BENEFITS

A solution that pays for itself, often after 2 or 3 projects!

PCB Footprint Expert creates PCB library parts in a fraction of the time compared with manual editing. There are many elements that go into the creation of a high quality library part and the PCB Footprint Expert auto-calculates and generates everything down to the finest details.

FREE Footprint Expert at www.PCBLibraries.com

(some features listed above require purchase)

PCB Libraries