

# IPC - 7351A LP Wizard

Land Pattern Creation: Manual VS LP Wizard



## Footprint Creation Tasks

### MANUAL

- Search web for datasheet
- Calculate pad sizes
- Place pads per datasheet specification
- Draw/Create courtyard
- Add component height
- Draw/Create silkscreen
- Draw/Create assembly outline
- Draw/Create pin1 indicator
- Add component fiducials if required
- Add required attributes
- Save land pattern to appropriate library

### LP WIZARD

- Search IPC-7351A Wizard for land pattern
- If land pattern exists, export to CAD format
- If land pattern doesn't exist, enter mechanical dimension component into the calculator
- LP Wizard calculates land pattern and builds land pattern, silkscreen, assembly and Courtyard
- Export land pattern to preferred CAD format

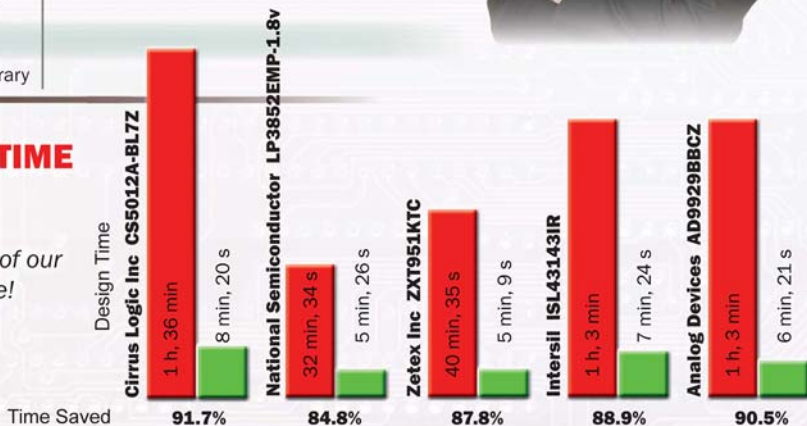
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## Time Comparison

MANUFACTURER PART #	LAND PATTERN NAME	Manual Design Time	LP Wizard Design Time	Time Saved	Percentage Time Saved
Analog Devices AD9929BBCZ	BGA100C80P10X10 1000X1000X140	1 h, 3 min	6 min, 21 s	56 min, 39 s	90.5%*
United Chemicon EMVE350ADA220MF55G	CAPAE660X550N	16 min, 15 s	9 min, 26 s	6 min, 49 s	43.8%
Panasonic ERJ-6ENF1001V	RESC2012X70N	23 min, 19 s	6 min, 54 s	16 min, 25 s	69.6%
Cirrus Logic Inc CS5012A-BL7Z	PLCC127P1752X1752X457-44N	1 h, 36 min	8 min, 20 s	1 h, 27 min	91.7%
Intersil ISL43143IR	QFN65P400X400X100-17L	1 h, 3 min	7 min, 24 s	55 min, 36 s	88.9%
Microchip Technology MCP6294-E/S	SOIC127P600X175-14N**	39 min, 48 s	8 min, 47 s	31 min, 1 s	77.5%
National Semiconductor LP3852EMP-1.8	T0230P1003X238-3N**	32 min, 34 s	5 min, 26 s	27 min, 8 s	84.8%
Zetex Inc ZXT951KTC	XTAL1320X480X430N**	40 min, 35 s	5 min, 9 s	35 min, 26 s	87.8%
<b>AVERAGE</b>		<b>46 min, 49 s</b>	<b>7 min, 13 s</b>	<b>39 min, 31 s</b>	<b>79.33%*</b>

\* Formula: (LP Time/Manual Time)\*100-100

\*\* Non-standard IPC LP