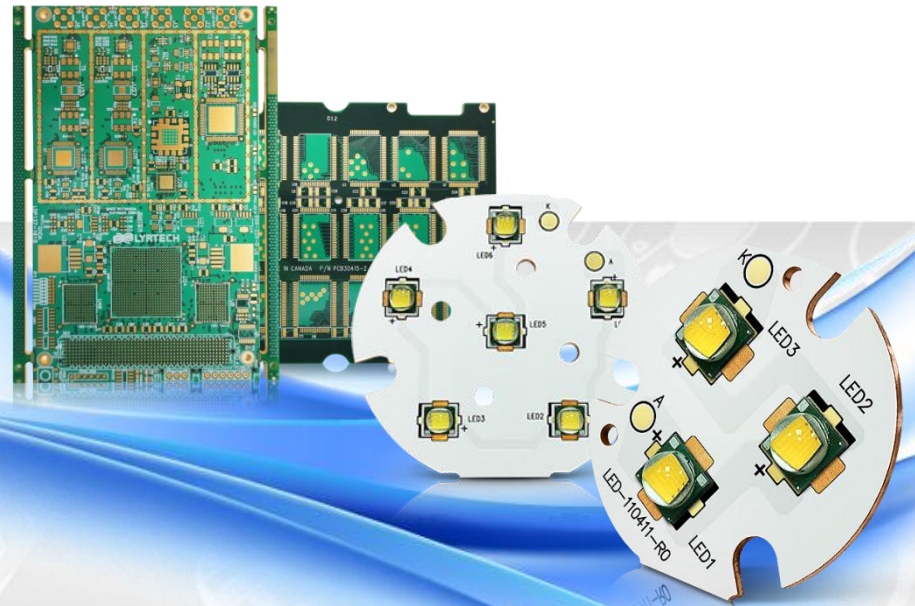




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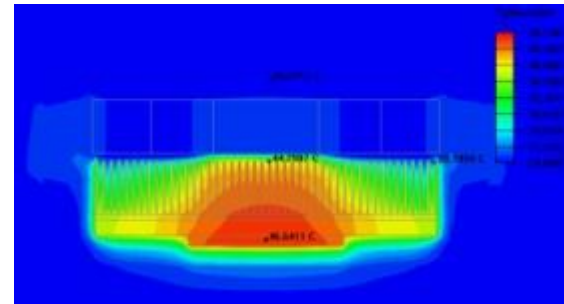
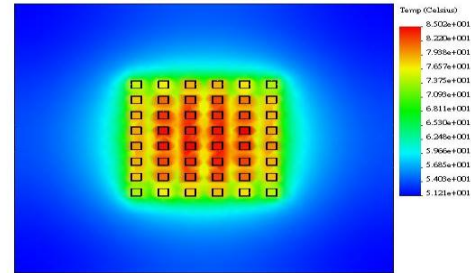


# Concurrent Engineering

## Design concept

- Gerber file review/DRC
- Material selection
- Construction
- DFM
- Palletize for SMTA
- Thermal Modeling

模型名稱: 21chuhshu\_21  
模型名稱: 21chuhshu\_21  
模型名稱: 21chuhshu\_21  
模型名稱: 21chuhshu\_21



# Concurrent Engineering(Thermal modeling)

## Computer Aided Design

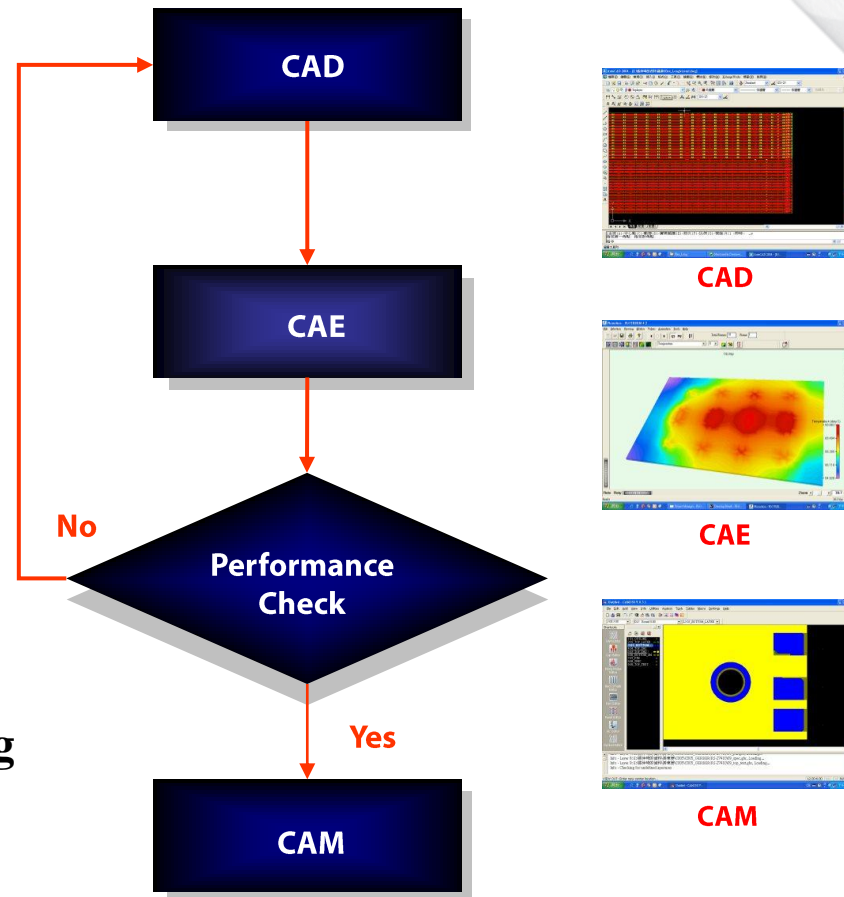
- Autocad
- Pro/E
- Solidwork

## Computer Aided Engineering

- Flotherm
- Ice-Pack
- Cosmos

## Computer Aided Manufacturing

- Master CAM
- CAM 350



Computer Aided Development

# Concurrent Engineering

## Thermal Model Construction

### Parameter Updated

- Geometry
- Mathematical Model
- Boundary Attributes
- Material Composition

CAD/CAE/CAM

Performance

### Performance Forecast

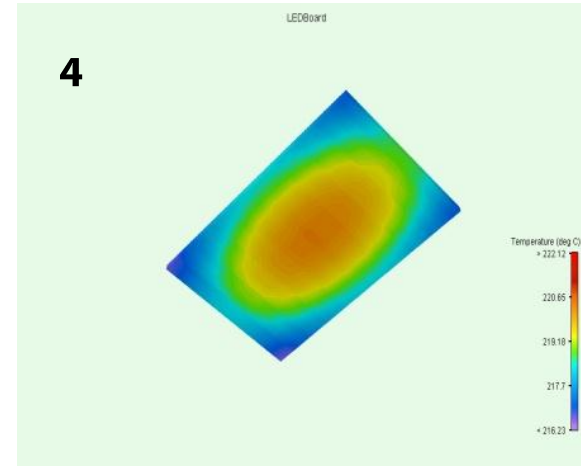
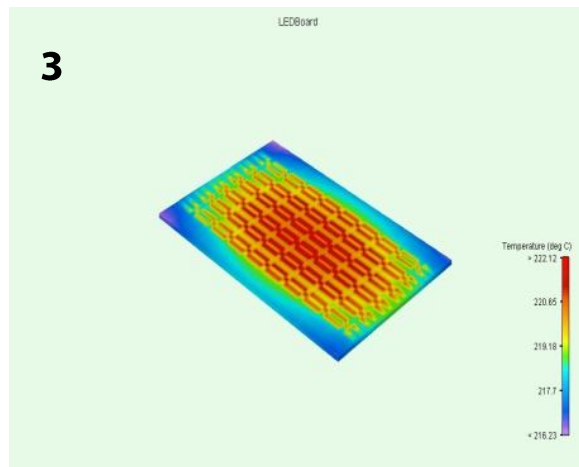
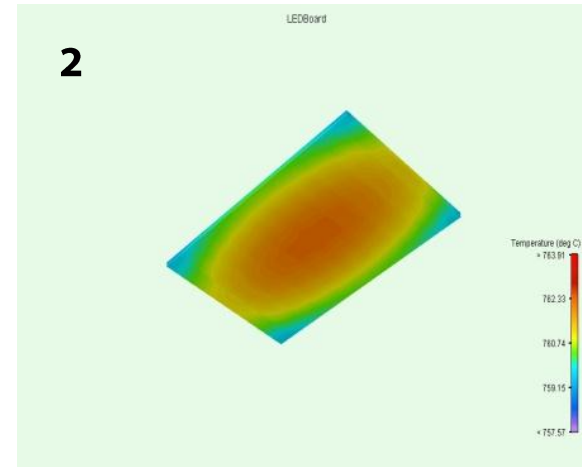
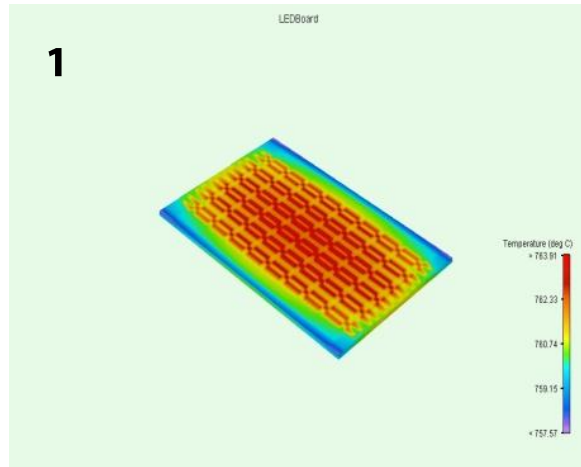
- Value
- Profile
- Vectors
- Contours
- Iso Surfaces

## Advantage of Thermal Modeling and Simulation:

- Optimum Design
- Reduce Sample Run
- Failure Prevention
- Reduce Project Developing Time
- Low Cost

# Concurrent Engineering

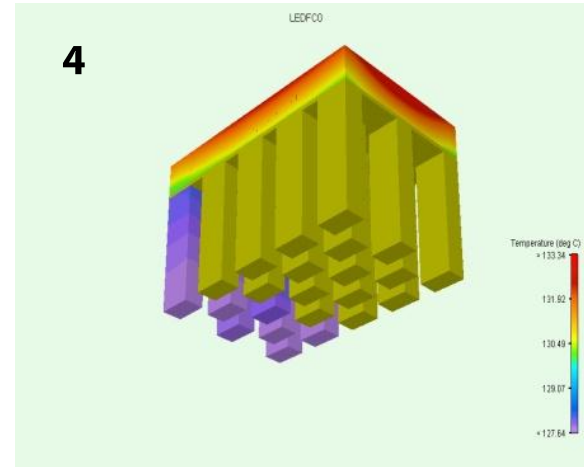
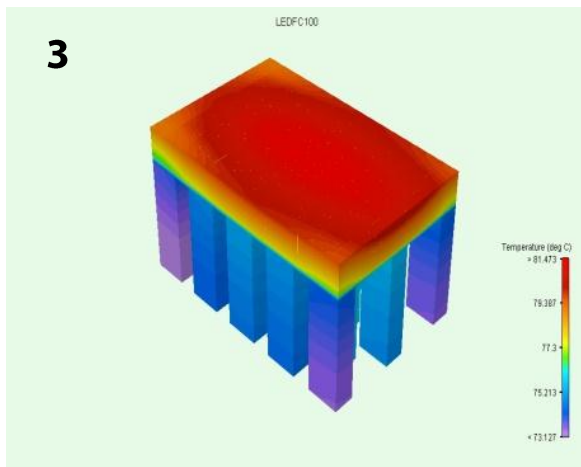
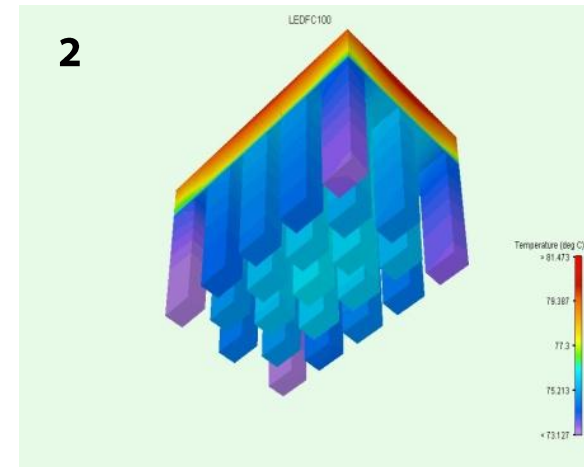
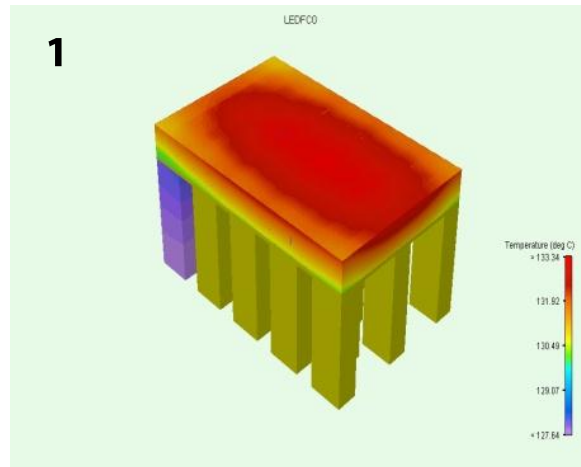
## Thermal Simulation - POST PROCESS WITH FINS





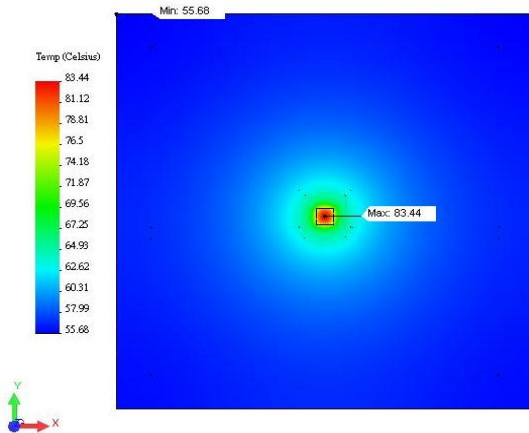
# Concurrent Engineering

Thermal Simulation - POST PROCESS WITH FINS

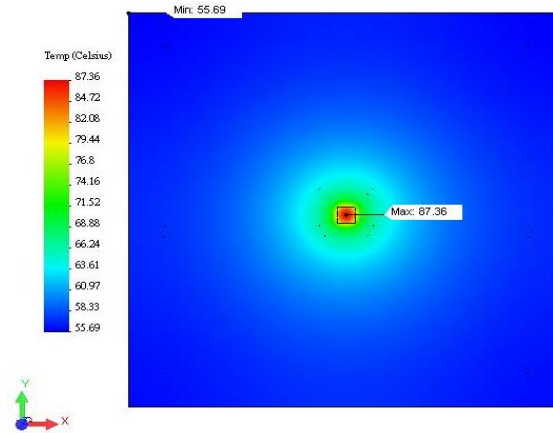


# Concurrent Engineering

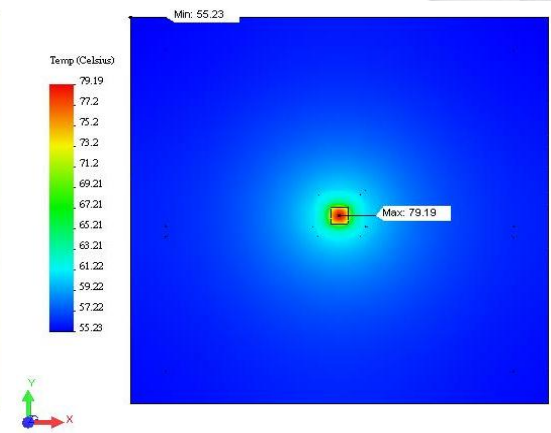
## Thermal Simulation



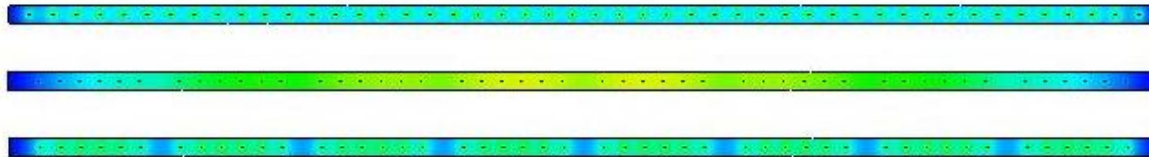
BOARD THICKNESS: 1.5MM  
BOARD SIZE: 120 MM X 120 MM  
MAXIMUM TEMPERATURE: 87.36 C



BOARD THICKNESS: 2.0 MM  
BOARD SIZE: 120 MM X 120 MM  
MAXIMUM TEMPERATURE: 83.44 C



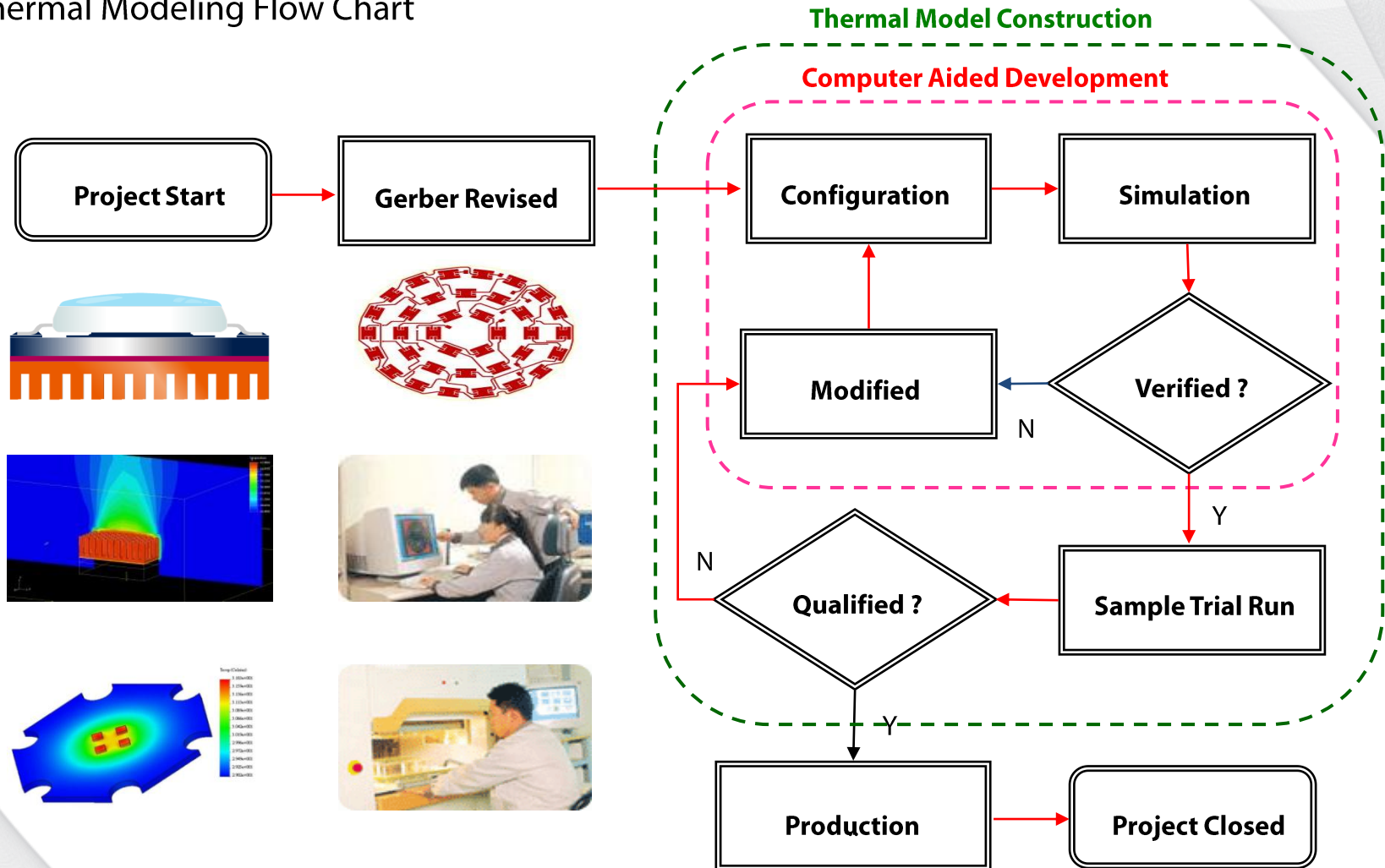
BOARD THICKNESS: 3.0 MM  
BOARD SIZE: 120 MM X 120 MM  
MAXIMUM TEMPERATURE: 79.19 C



Thermal Distribution : Heat Source vs. Location and material

# Concurrent Engineering

## Thermal Modeling Flow Chart





# Quality Assurance & Quality Control

**ONLINE CERTIFICATIONS DIRECTORY**  
**ZPMW2.E202216**  
**Wiring, Printed - Component**  
 Enhanced searching capability for this category can be found in U.S. & Canada of Database (U.S./CAN):  
 E202216

**Wiring, Printed - Component**  
 See General Information for Notes, Prerequisites, Comments

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 SHULIN DISTRICT, TAIPEI CITY, TAIWAN

Code	Min	Max	Code	Min	Max	Code	Min	Max	Code	Min	Max
001	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12
002	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12
003	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12
004	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12
005	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12
006	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12
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008	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12
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010	0.1	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12	0.0000	0.12

**CTE**  
 and type designation. May be followed by a suffix to denote factory identification.  
 LMS 10/10/10 on 2010-10-29  
 Certificate: E202216.LMS

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 Issues Date: 24 November 2011  
 Expiry Date: 21 November 2012  
 Licence No: TA1029-QC-EG  
 Original Certification: 05 May 2010

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 Expiry Date: 21 November 2012  
 Licence No: TA1029-QC-EC  
 Original Certification: 24 November 2009

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**Certificate of Approval**  
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*Has been assessed and found to meet the requirements of*  
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Certificate Number: Q141007129  
 Date of Issue: 18 July 2010  
 Valid until: 15 July 2013

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## Quality Standards

- ISO 9001:2000
- ISO 9001:2008
- IPC-6011
- IPC-6012B
- ANSI/IPC-A-600
- IPC-4101B
- UL/CSA

# Why partner with Cofan-USA?

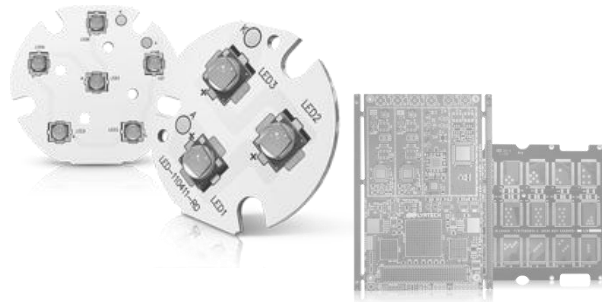
- 1. TECHNOLOGY**
- 2. QUALITY**
- 3. RESPONSIVENESS**
- 4. DELIVERY**
- 5. COST**

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