

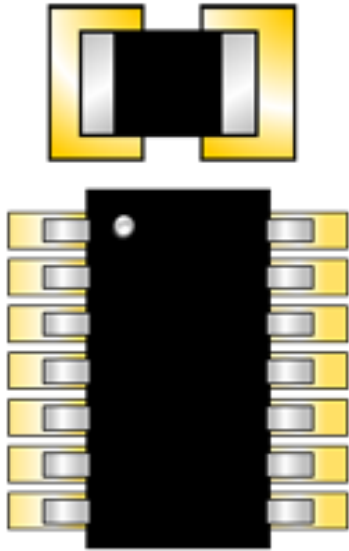
# Timeline for Lecture

- Today – PCB Layout & Library Management
- 11 Apr – Project Management and Mini-Project discussion
- 18 Apr – Engineering Ethics Assignment – **Mini-Project Presentation Signup**
- 25 Apr – 496B Projects for Fall 2018 – **Ethics Assignment Due**
- 2 May – Design Day 1:30 to 3:30 in Montezuma Hall (no class)

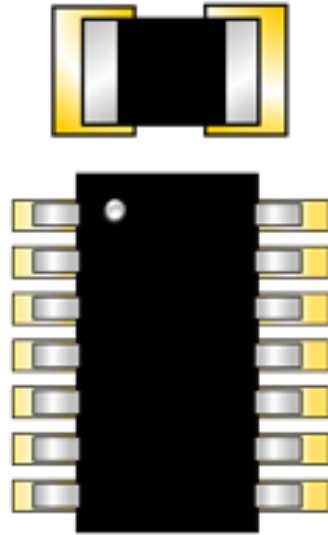
# Timeline for Lab

- Open Lab Until Final Presentations
  - Group Exercise On Designing Parts in Mentor Graphics
  - Demo and Support On PCB Layout
  - General Project Consultation
- Mini-Project Presentation and Project Evaluations
  - Wednesday 25 April 12:30PM
  - Thursday 26 April 9:00AM
  - Monday 30 April 9:00AM

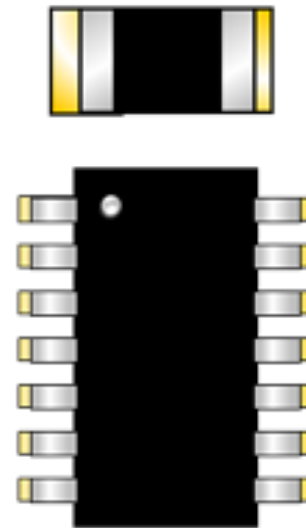
# Making Parts in Library Manager



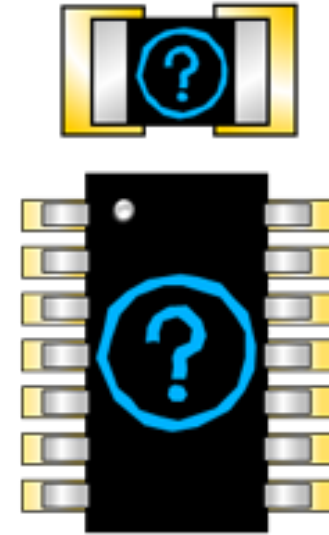
**Density Level A**  
Very Robust  
Solder Joint



**Density Level B**  
General Purpose  
Solder Joint



**Density Level C**  
Minimal Solder Joint  
High Density

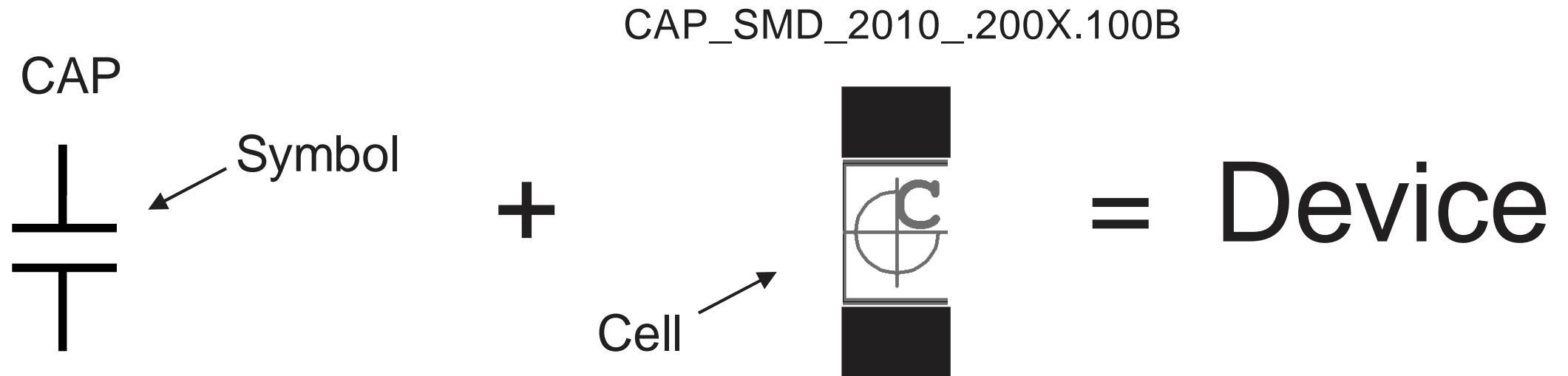


**CUSTOM**  
Mfr Recommended, or  
User/Customer Required

# PCB Library Management

Have Symbol And Cell Need Device

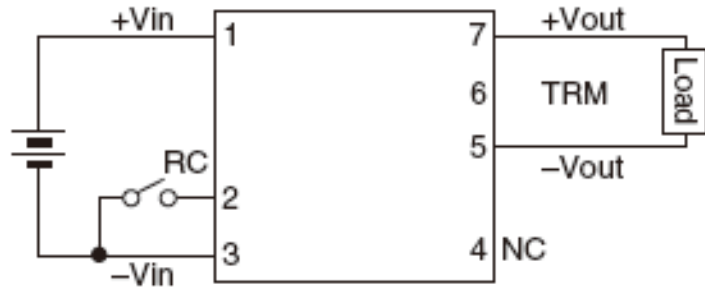
2010 SMD Capacitor





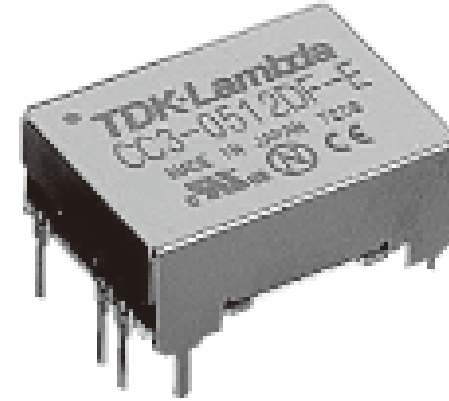
# TDK-Lambda DC-DC Converter

Connection diagram  
CC3-xxxxSx-E



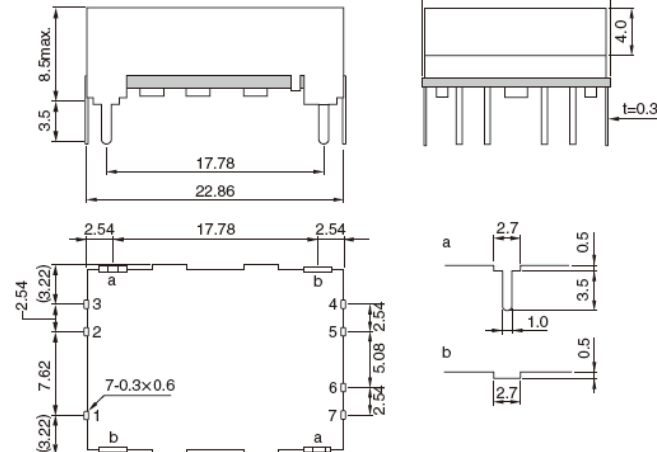
Terminal connections

No.1	+Vin
No.2	RC
No.3	-Vin
No.4	NC
No.5	-Vout
No.6	TRM
No.7	+Vout

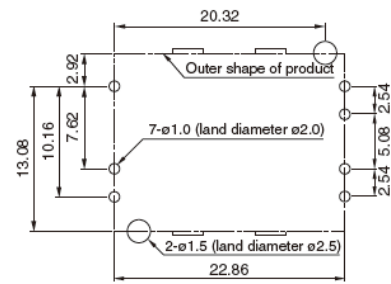


CC3-xxxxxF-E (DIP type)

Shape/Dimensions



Recommended measurements for mounting board



Unit: mm  
Allowable tolerance is ±0.5 if not specified separately.

1mm = 0.0394"  
1.5mm = 0.0591"  
2mm = 0.0788"  
2.5mm = 0.0984"

