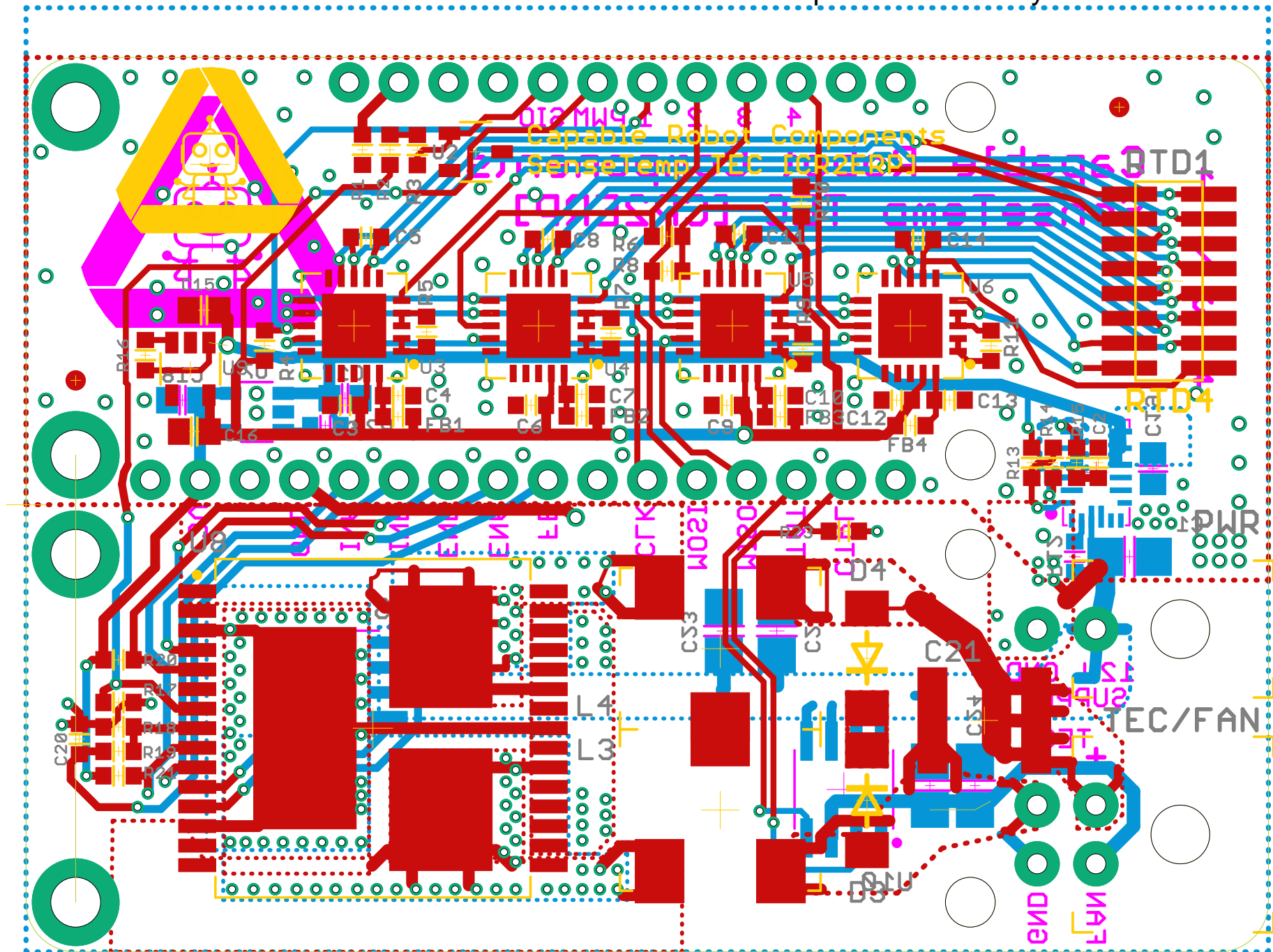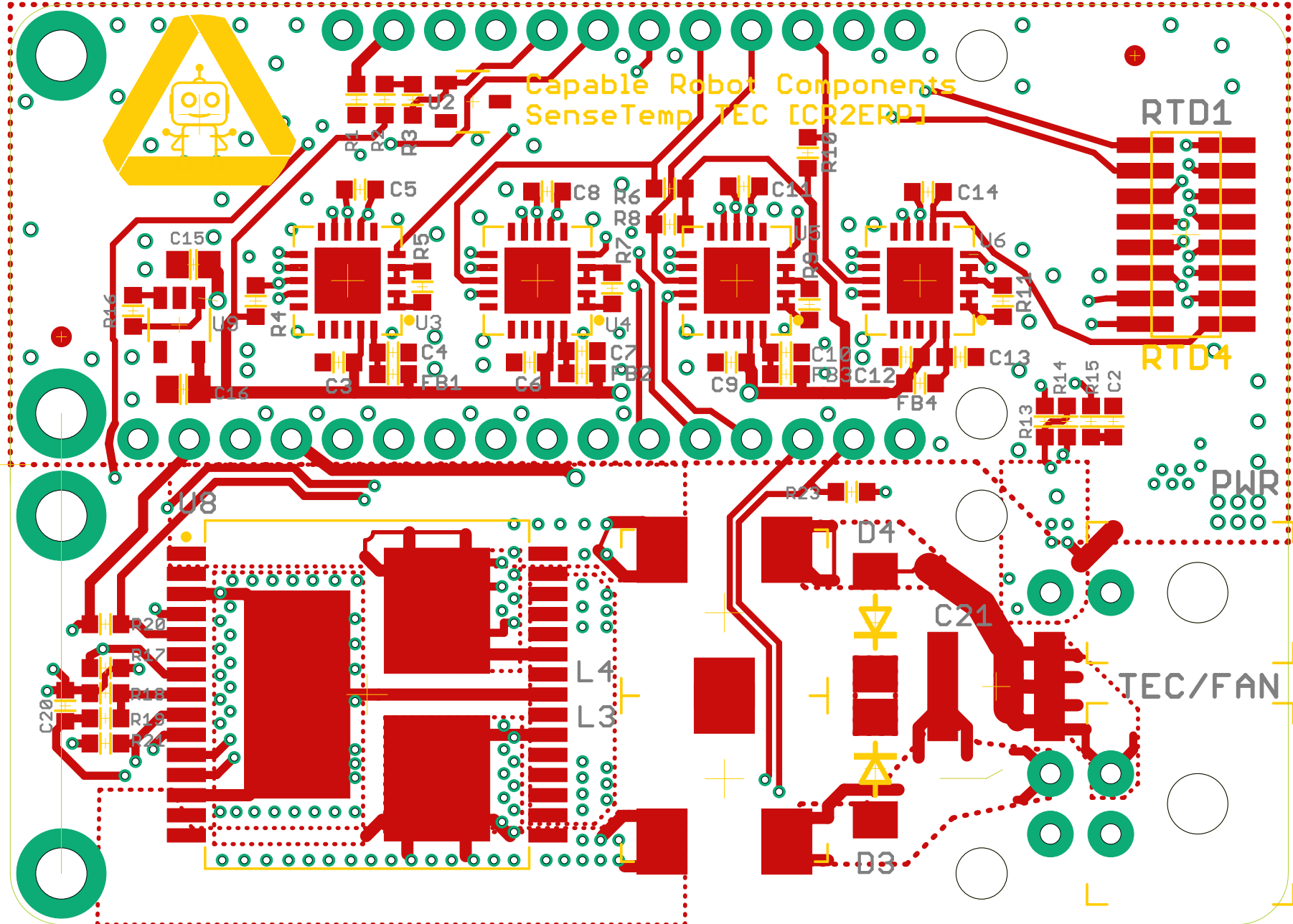SenseThermo TEC - CR2ERP : Top and Bottom Layers

SenseThermo TEC - CR2ERP : Top Layer

Capable Robot Components
SenseTemp TEC [CR2ERP]

RTD1

RTD4

PWR

TEC/FAN

U2
R1 R2 R3
C5
C8 R6
C11
C14
R10
C15
R8
R7
U5
U6
R4
R5
R11
U9
U3
U4
C4
C7
C10
C13
R14 R15 C2
C3
FB1
C6
FB2
C9
FB3 C12
FB4
R13
C16
U8
R23
D4
C21
R20
R17
L4
R18
L3
C20
R19
R21
D3

4 3 2 1 PWM SIO

1

Capable Robot Components
SenseTemp TEC [CR2ERP]

2

3

4

C19

U1

C1

R12

C17 U7 C18

R22

12V GND
SUPPLY

TEC
+   −

CTRL STAT MISO MOSI SCLK   FB ENA ENB INB INA GND   3V
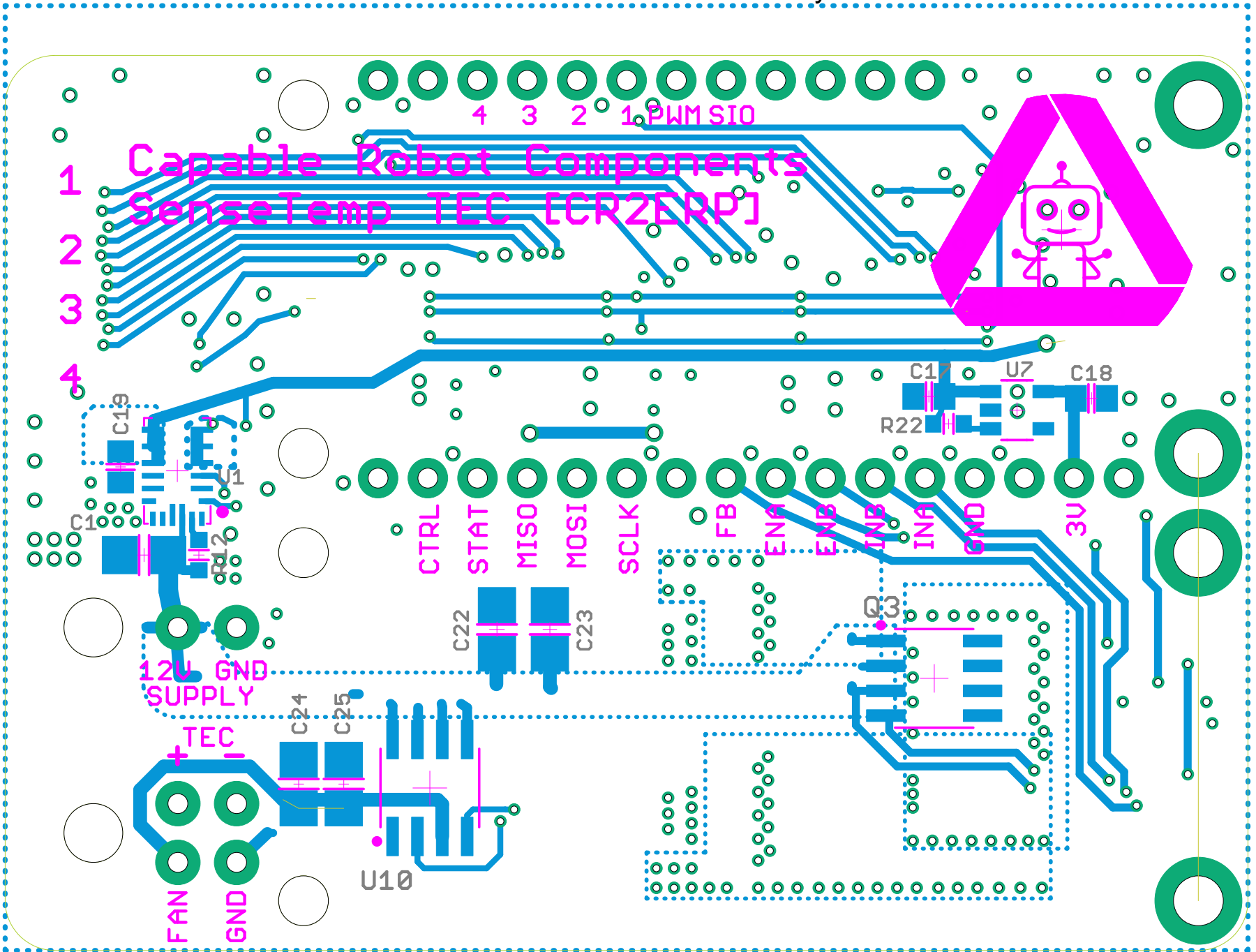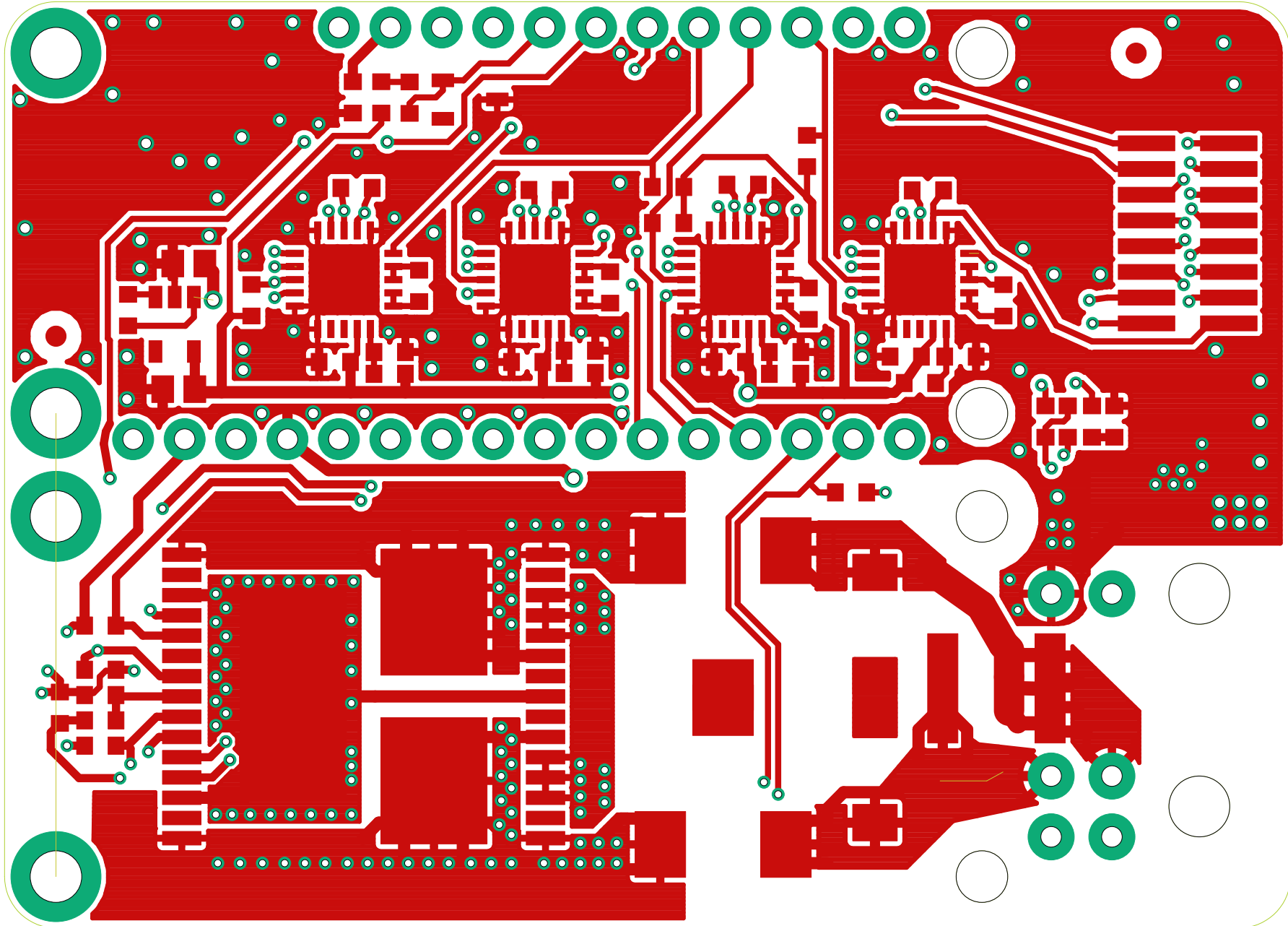
C22   C23

Q3

C24 C25

U10

FAN GND

SenseThermo TEC - CR2ERP : Top Copper Layer

SenseThermo TEC - CR2ERP : Bottom Copper Layer
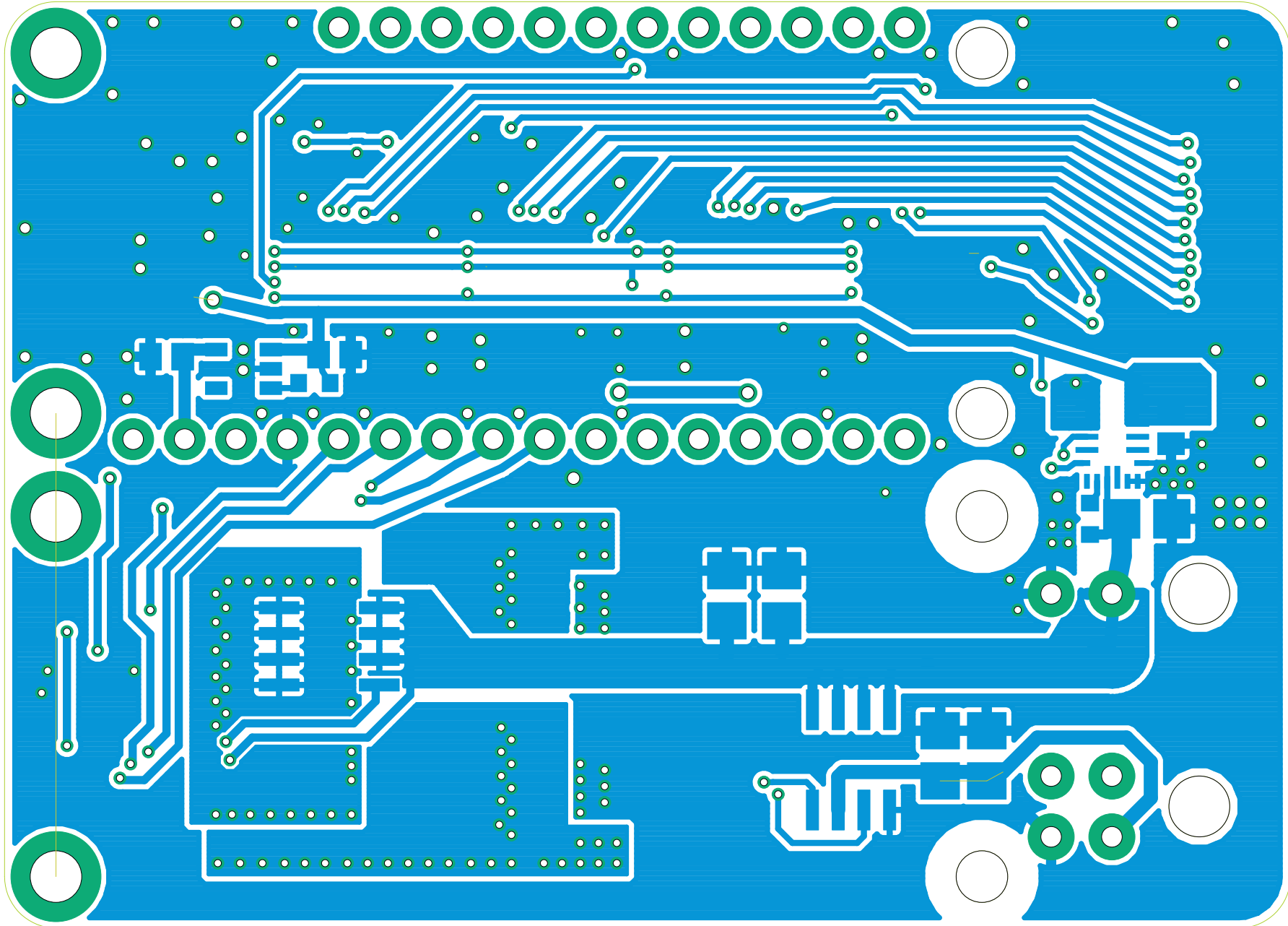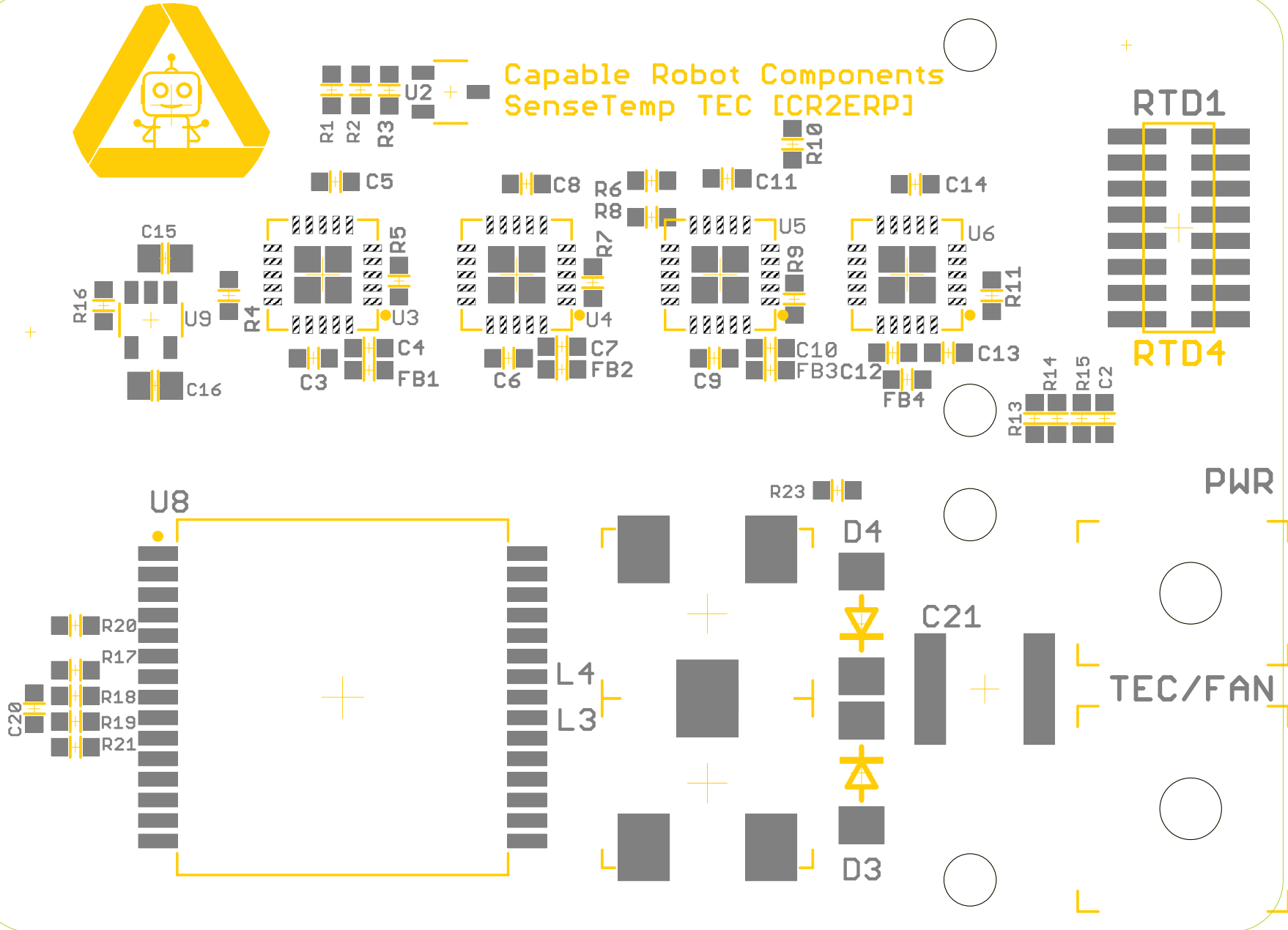
SenseThermo TEC - CR2ERP : Top Paste Layer with Silkscreen

Capable Robot Components
SenseTemp TEC [CR2ERP]

U2

R1 R2 R3

R10

C5 C8 C11 C14

R6
R8

C15 R5 U5 U6

R16 R4 R7 R9 R11

U9 U3 U4

C4 C7 C10 C13

R14 R15 C2

C3 FB1 C6 FB2 C9 FB3 C12

R13 FB4

C16

RTD1

RTD4

PWR

R23

U8

D4

C21

R20

R17

TEC/FAN

L4

C20 R18

L3

R19

R21

D3

4 3 2 1 PWM SIO

Capable Robot Components
SenseTemp TEC [CR2ERP]

1

2

3

4

C19

U1

C1

R12

CTRL STAT MISO MOSI SCLK

FB ENA ENB INB INA GND

3V

C22 C23

Q3

12V GND
SUPPLY

C24 C25

+ TEC −

U10

FAN GND

C17 U7 C18

R22