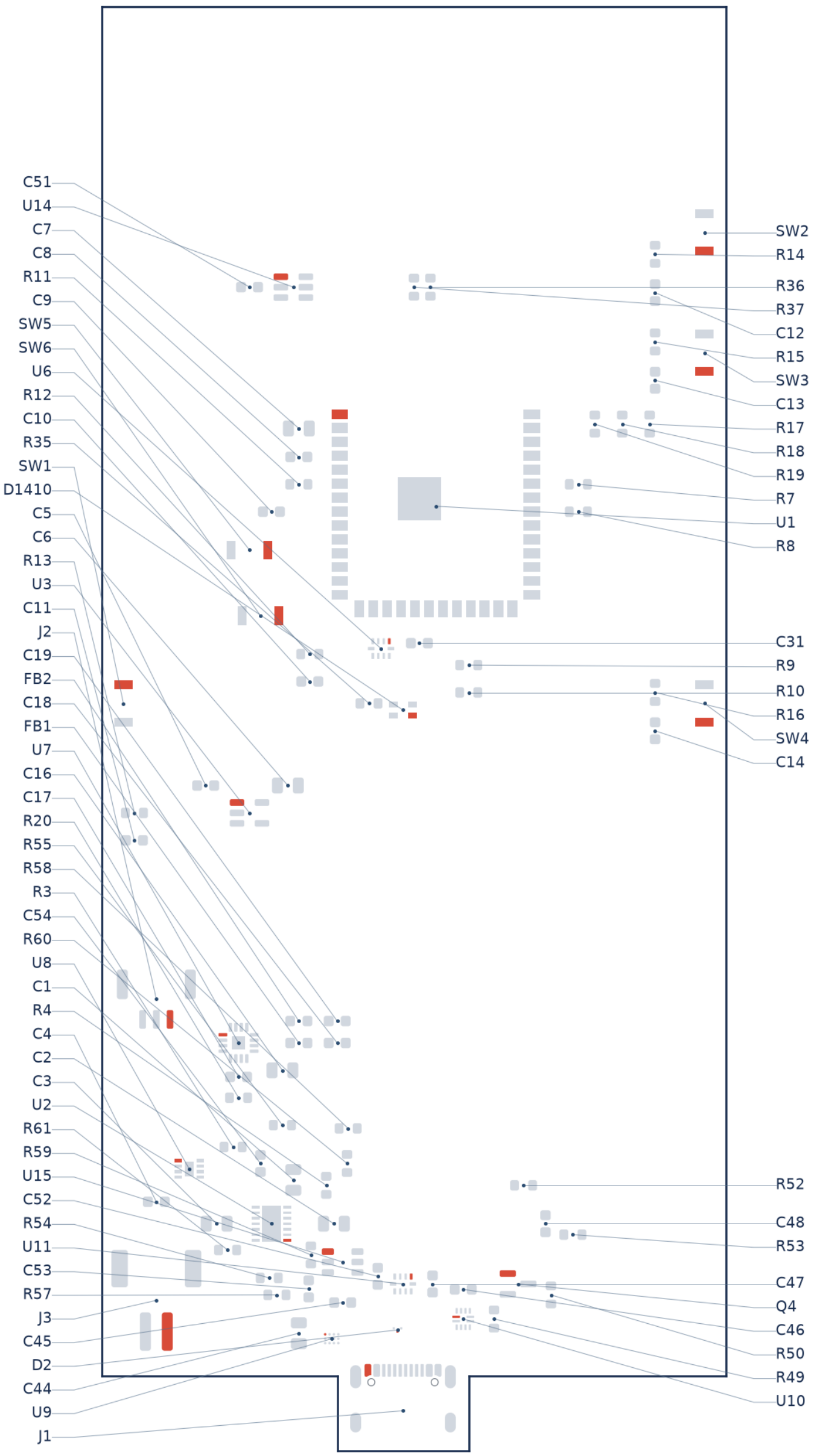
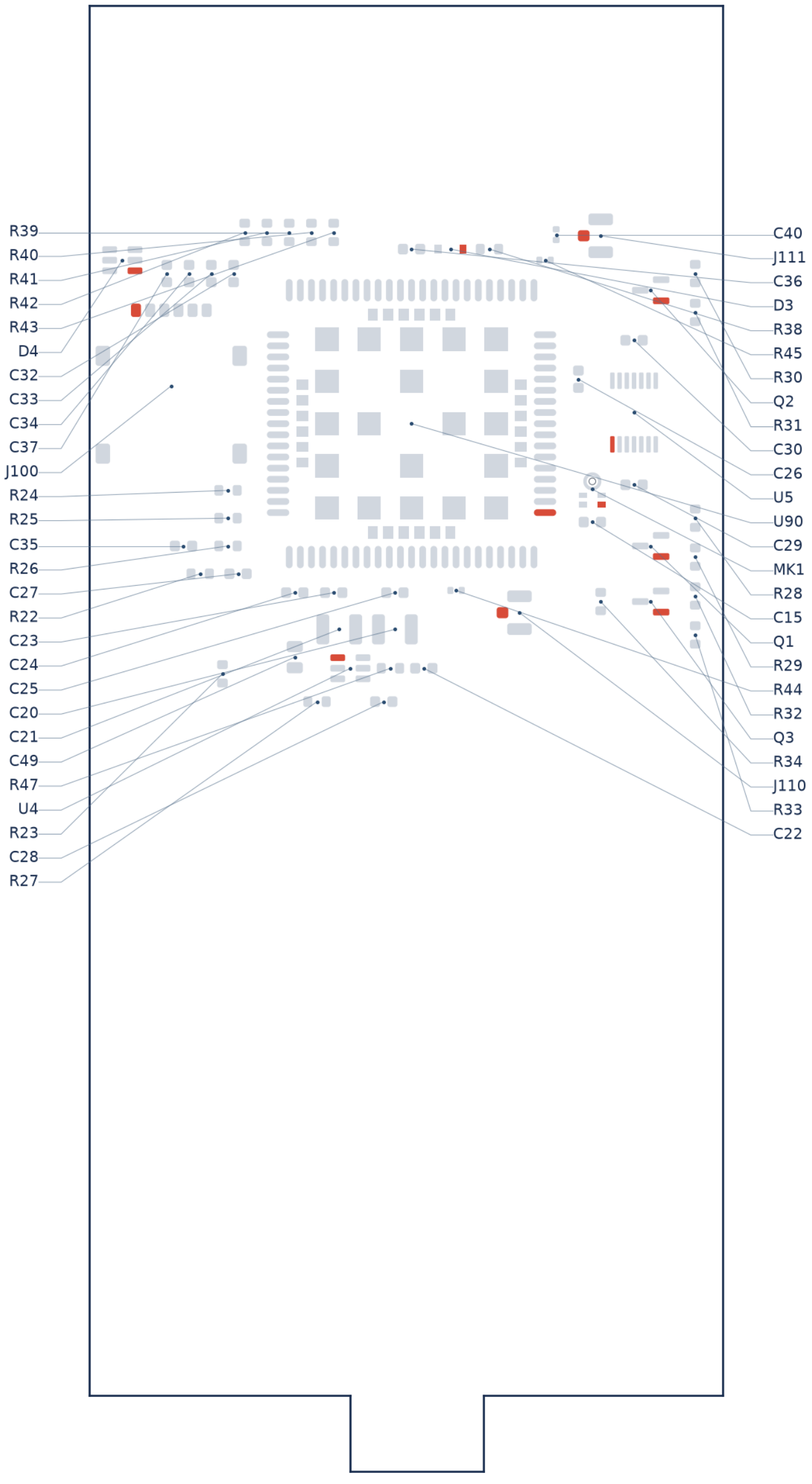
Walkie One 05E | TOP assembly location map
83 fitted parts | viewed from the mounting side



Fit only these 137 references. Unfitted options receive no paste in controlled assembly stencils.
Red = pin 1/A1 land on orientation-sensitive parts. Blue dot = placement origin.
Not to scale for fabrication. Exact coordinates/angles: NATIVE-PIN1-MAP.txt and native-orientation-map.json.

Views look directly at each mounting surface. Bottom drawings already show the bottom view; do not mirror them again.
CPL uses the supplied common origin. Red marks pad 1/A1, not necessarily positive (+). Blue marks the placement origin.

Walkie One 05E | BOTTOM assembly location map
54 fitted parts | viewed from the mounting side



Fit only these 137 references. Unfitted options receive no paste in controlled assembly stencils.
Red = pin 1/A1 land on orientation-sensitive parts. Blue dot = placement origin.
Not to scale for fabrication. Exact coordinates/angles: NATIVE-PIN1-MAP.txt and native-orientation-map.json.

Views look directly at each mounting surface. Bottom drawings already show the bottom view; do not mirror them again.

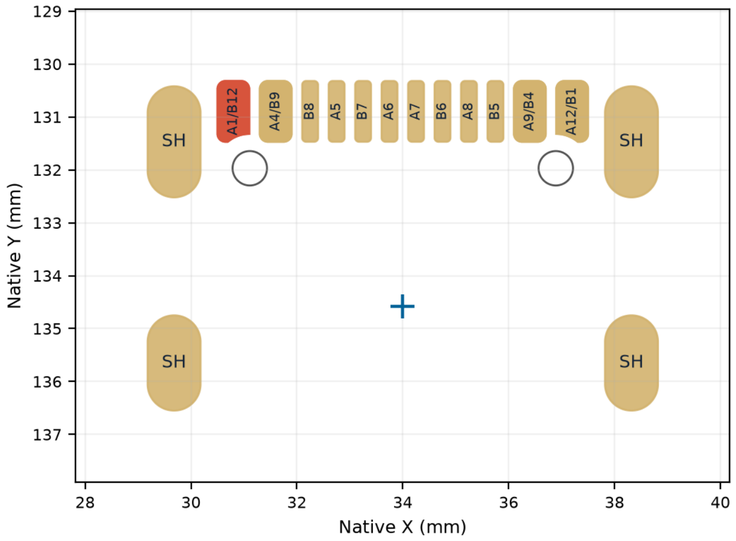
CPL uses the supplied common origin. Red marks pad 1/A1, not necessarily positive (+). Blue marks the placement origin.

Walkie One 05E | Orientation detail 1/10

Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

J1 | USB4105-GF-A

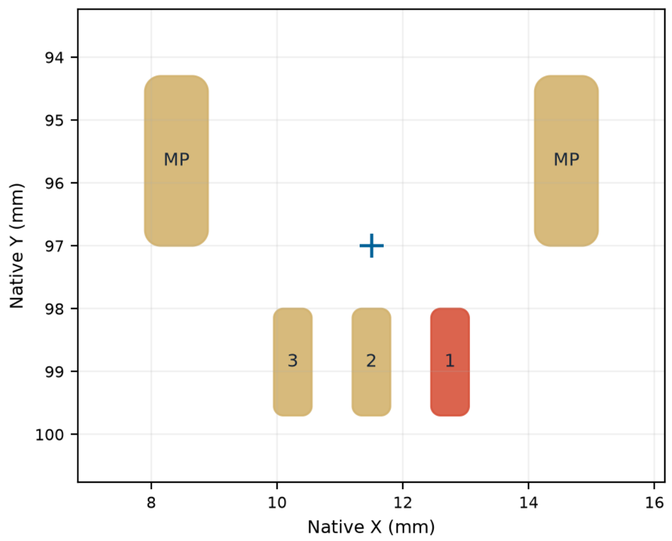
TOP mounting view | native angle 0 deg



USB-C: A1/B12 shared ground land; mating mouth points toward USB board tongue

J2 | SM03B-GHS-TB

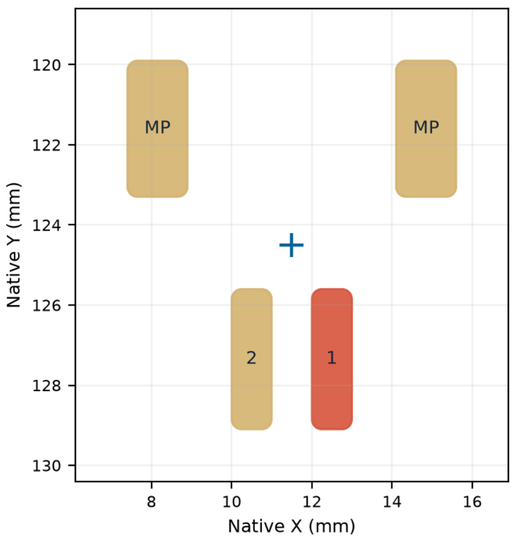
TOP mounting view | native angle 180 deg



Speaker GH3: 1=SPK+, 2=no connection, 3=SPK-; no populated middle contact in mating cable

J3 | S2B-PH-SM4-TB(LF)(SN)

TOP mounting view | native angle 180 deg



Battery PH2: 1=VBAT+, 2=GND-; verify actual cable polarity before connection

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.

PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

Views look directly at each mounting surface. Bottom drawings already show the bottom view; do not mirror them again.

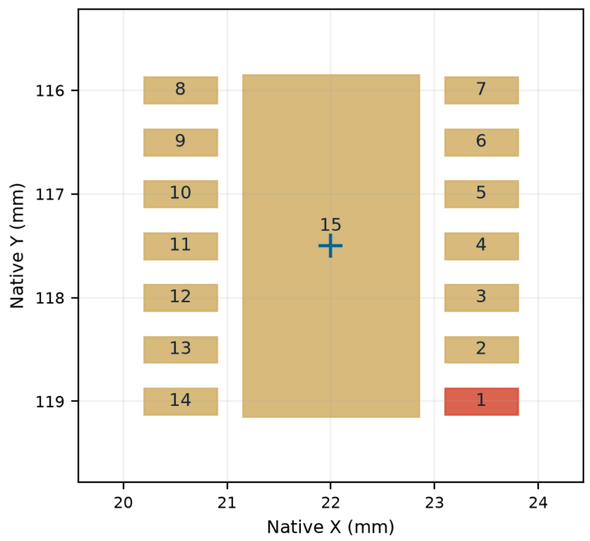
CPL uses the supplied common origin. Red marks pad 1/A1, not necessarily positive (+). Blue marks the placement origin.

Walkie One 05E | Orientation detail 2/10

Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

U2 | LTC4085EDE-1#PBF

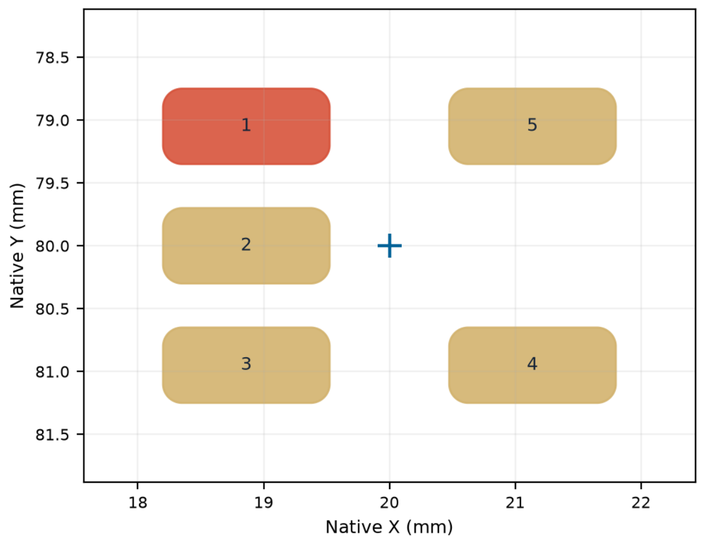
TOP mounting view | native angle 180 deg



Charger: 1=IN, 2=OUT, 14=BAT, 15=exposed ground pad

U3 | AP2112K-3.3TRG1

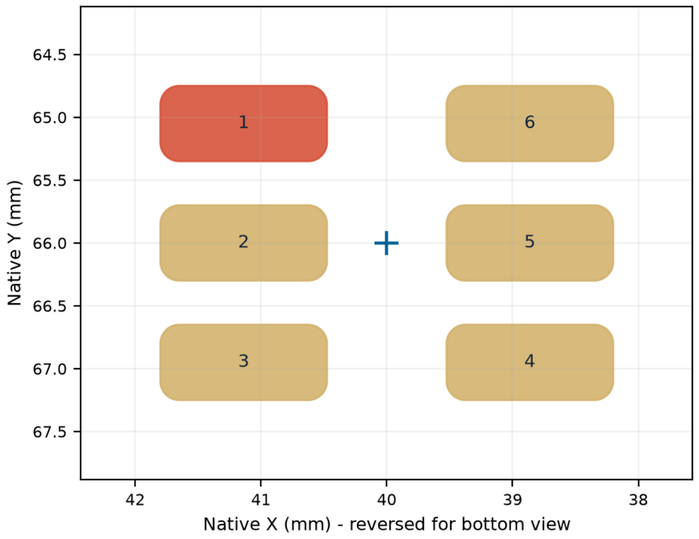
TOP mounting view | native angle 0 deg



LDO: 1=VIN, 2=GND, 3=EN, 4=NC, 5=VOUT

U4 | TPS22918DBVR

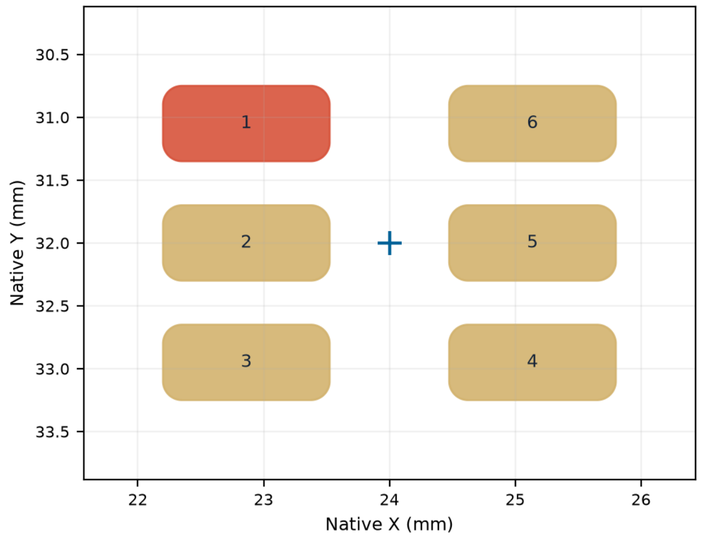
BOTTOM mounting view | native angle 180 deg



Load switch: 1=VIN, 2=GND, 3=EN, 4=CT, 5=QOD, 6=VOUT

U14 | TPS22810DBVT

TOP mounting view | native angle 0 deg



Load switch: 1=VIN, 2=GND, 3=EN, 4=CT, 5=QOD, 6=VOUT

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.

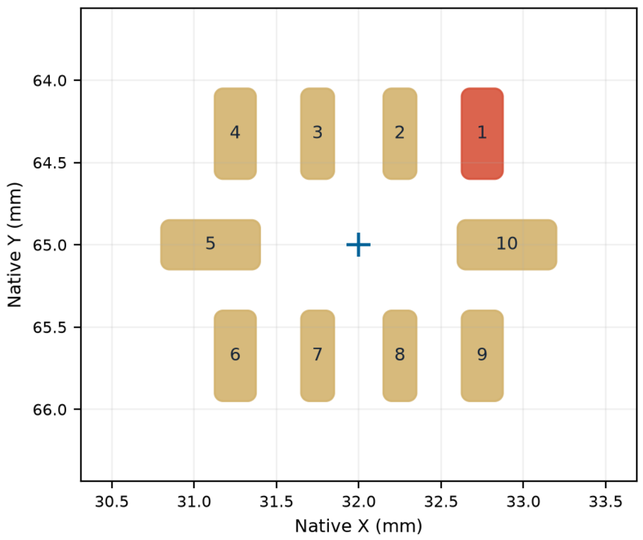
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

Views look directly at each mounting surface. Bottom drawings already show the bottom view; do not mirror them again.

CPL uses the supplied common origin. Red marks pad 1/A1, not necessarily positive (+). Blue marks the placement origin.

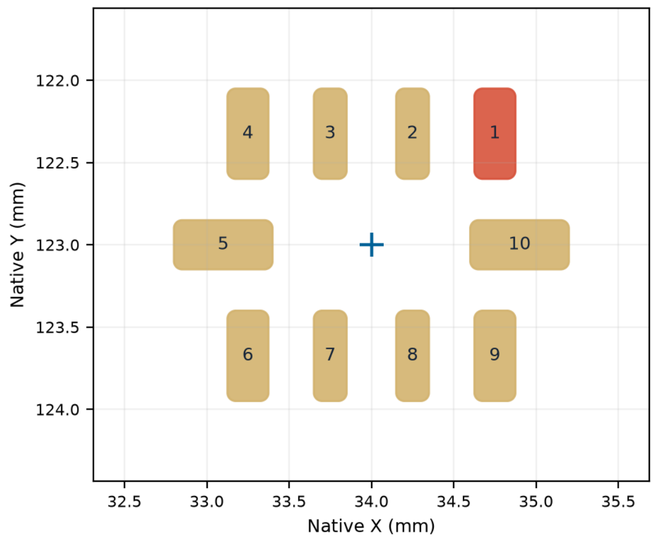
Walkie One 05E | Orientation detail 3/10
Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

U6 | TS3USB221ERSER
TOP mounting view | native angle -90 deg



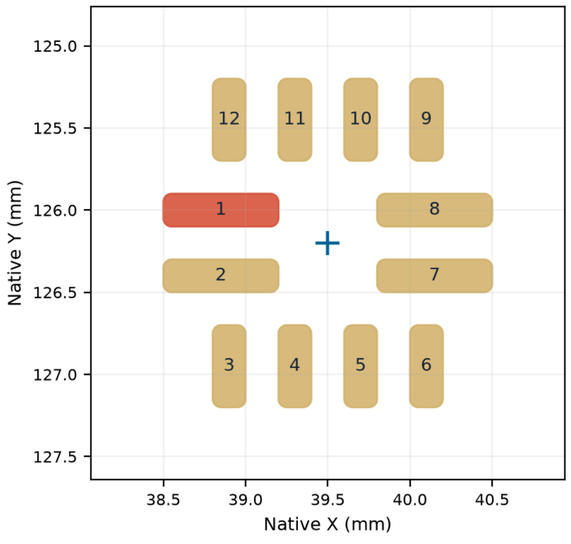
USB mux: 1=ESP_DP, 2=ESP_DN; 5=GND; 7=common DN, 8=common DP

U11 | BQ24392RSER
TOP mounting view | native angle -90 deg



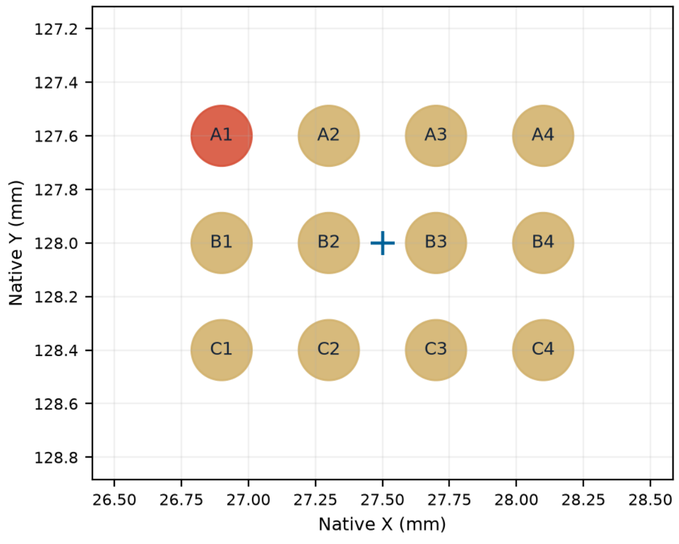
USB detector: 1=SW_OPEN/NC, 2=DM_HOST, 3=DP_HOST, 6=GND, 9=VBUS

U10 | FUSB303BTMX
TOP mounting view | native angle 0 deg



Type-C controller: 1=CC1, 2=CC2, 10=GND, 12=VDD

U9 | TPD1S514-1YZR
TOP mounting view | native angle 0 deg

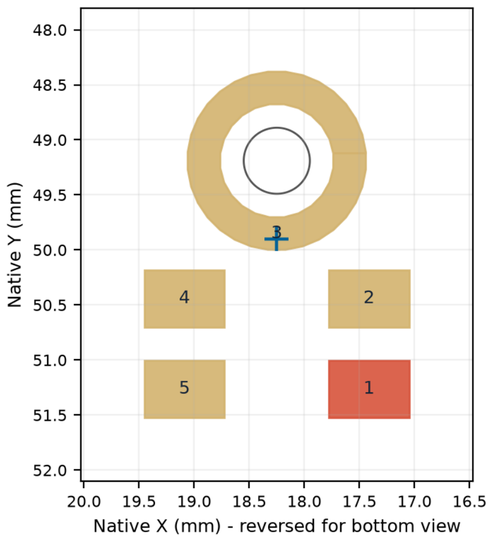


DSBGA: red A1 is manufacturer ball-A1 corner; A1=enable input

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

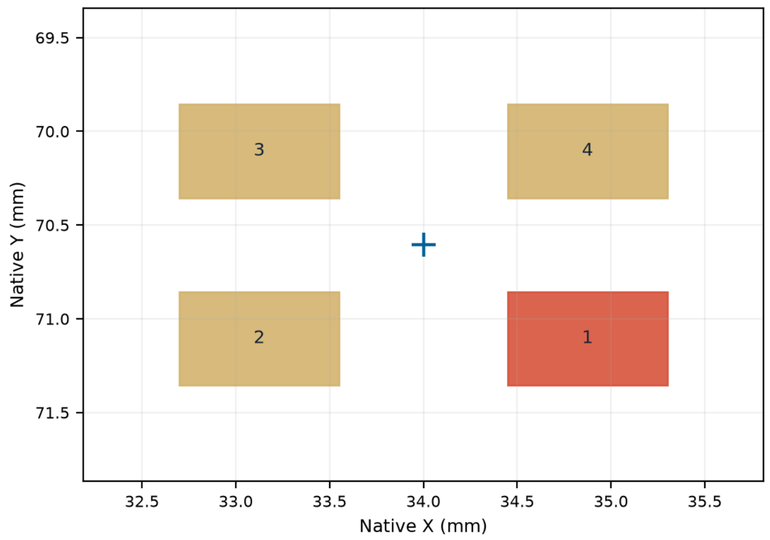
Walkie One 05E | Orientation detail 4/10
Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

MK1 | SPH0690LM4H-1
BOTTOM mounting view | native angle 0 deg



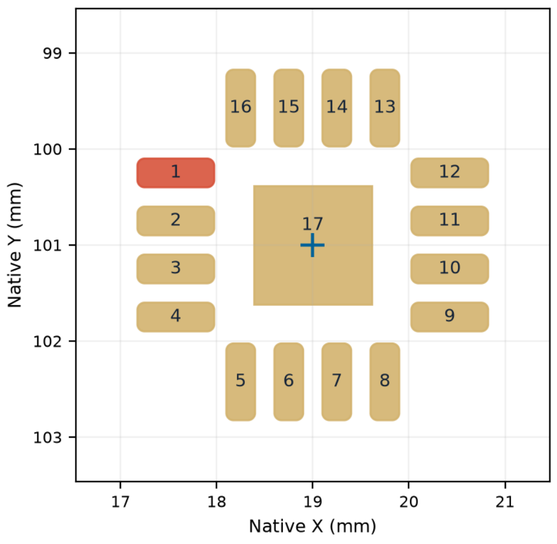
Bottom-port microphone: 1=data, 2=select/GND, 3=GND, 4=clock, 5=VDD; keep sound hole open

D1410 | APTF1616LSEEZGKQBKC
TOP mounting view | native angle 0 deg



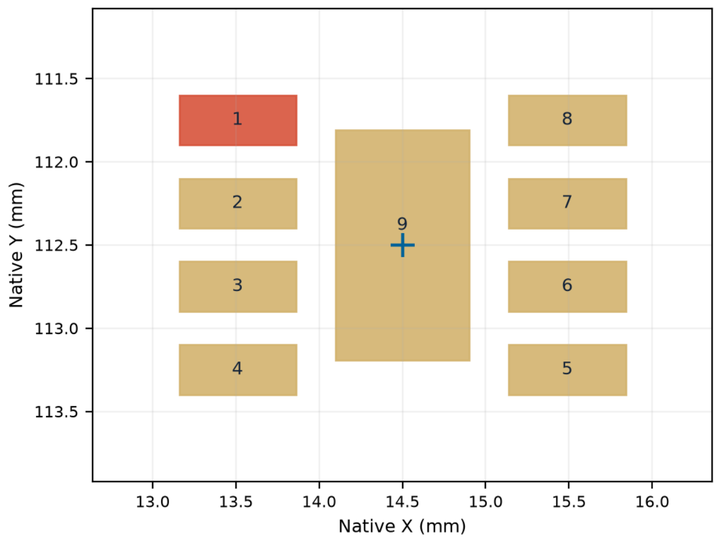
RGB LED: 1=common anode, 2=red cathode, 3=green cathode, 4=blue cathode

U7 | MAX98357AETE+T
TOP mounting view | native angle 0 deg



Audio amplifier: 1=DIN, 17=exposed ground pad

U8 | MAX17048G+T10
TOP mounting view | native angle 0 deg



Battery gauge: 1=CTG/GND, 2=CELL, 3=VDD, 4=GND, 9=exposed GND

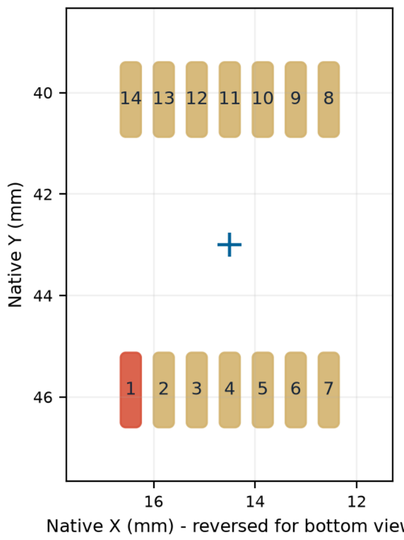
View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

Views look directly at each mounting surface. Bottom drawings already show the bottom view; do not mirror them again.
CPL uses the supplied common origin. Red marks pad 1/A1, not necessarily positive (+). Blue marks the placement origin.

Walkie One 05E | Orientation detail 5/10

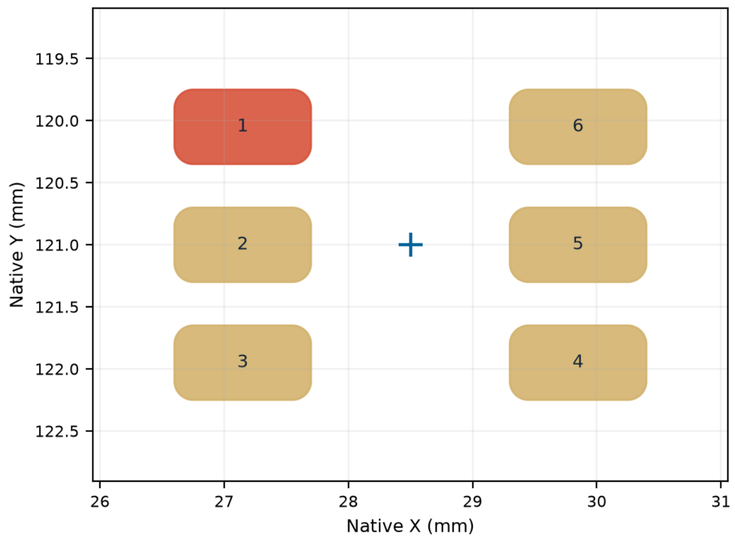
Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

U5 | TXU0204PWR
BOTTOM mounting view | native angle 90 deg



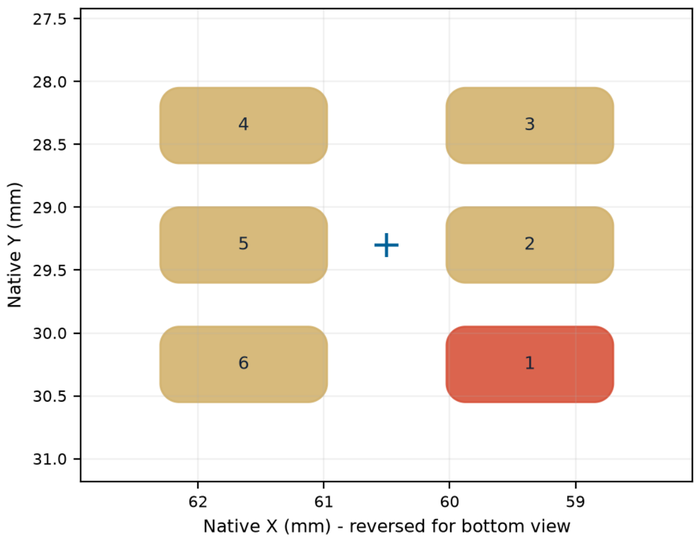
Translator: 1=VCCA, 7=GND, 8=OE, 14=VCCB

U15 | TLV6700DDCT
TOP mounting view | native angle 0 deg



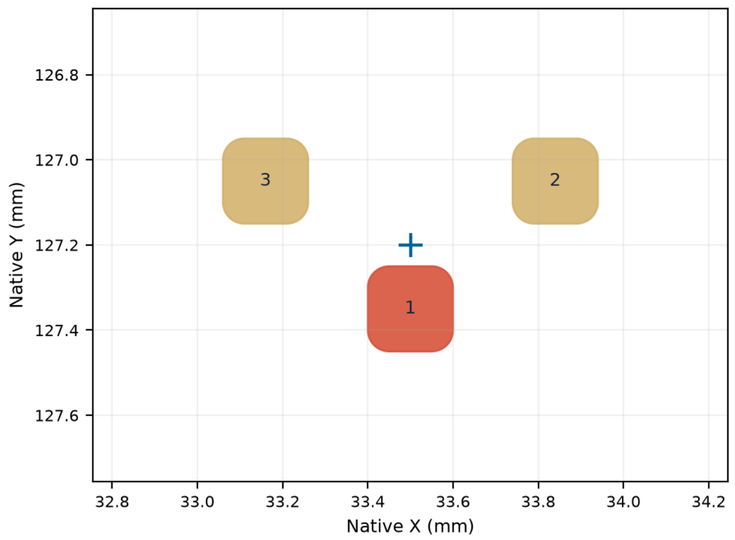
Comparator: 1=OUTA, 2=GND, 3=INA, 4=INB, 5=VDD, 6=OUTB

D4 | ESDA6V1-5SC6
BOTTOM mounting view | native angle 0 deg



ESD array: 2=GND; orientation-sensitive numbered signal terminals

D2 | ESD122DMXR
TOP mounting view | native angle 0 deg



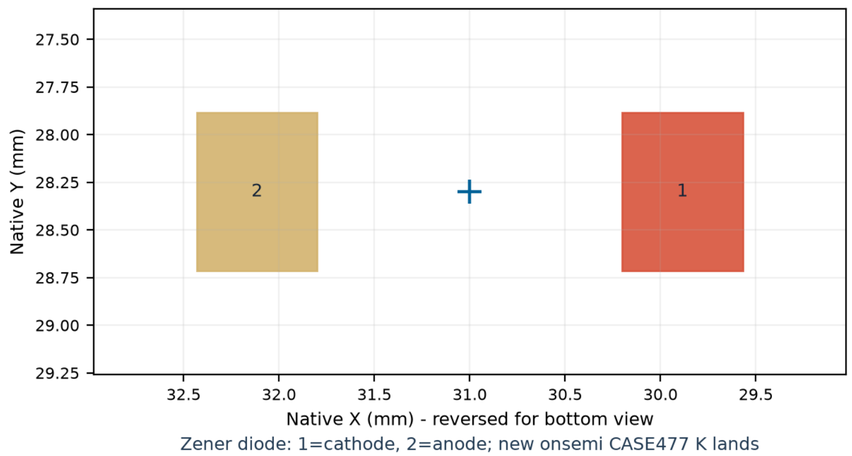
ESD array: 1=GND, 2=USB_DN, 3=USB_DP; use DMX staggered footprint

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

Views look directly at each mounting surface. Bottom drawings already show the bottom view; do not mirror them again.
CPL uses the supplied common origin. Red marks pad 1/A1, not necessarily positive (+). Blue marks the placement origin.

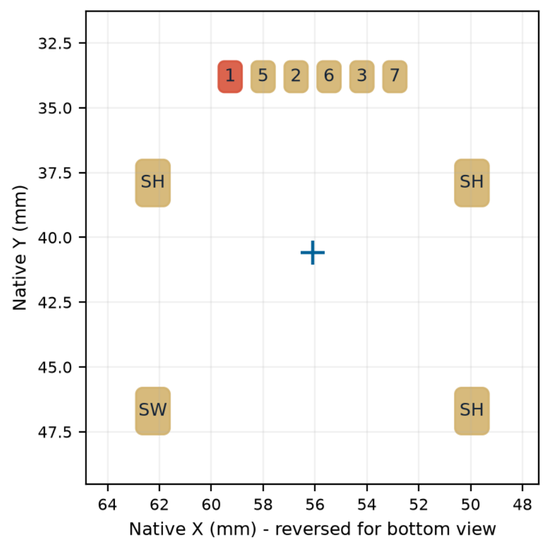
Walkie One 05E | Orientation detail 6/10
Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

D3 | MM3Z4V7T1G
BOTTOM mounting view | native angle 0 deg



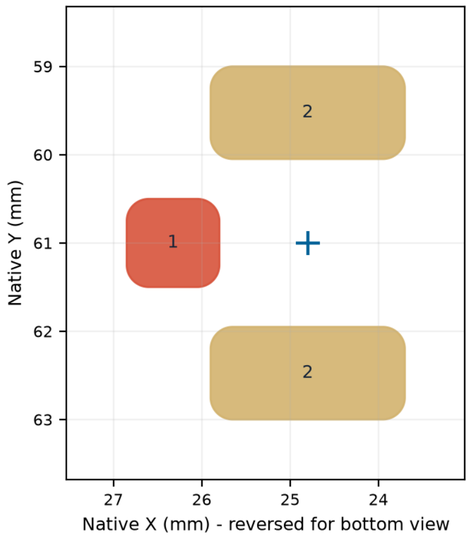
Zener diode: 1=cathode, 2=anode; new onsemi CASE477 K lands

J100 | SIM8060-6-1-14-00-A
BOTTOM mounting view | native angle 180 deg



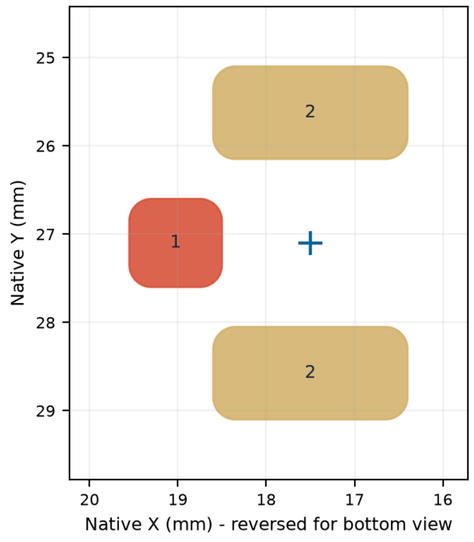
Nano-SIM: 1=VCC, 2=RST, 3=CLK, 5=GND, 6=NC, 7=DATA; SW=switch

J110 | U.FL-R-SMT-1(10)
BOTTOM mounting view | native angle 180 deg



coaxial connector; pad 1 is RF signal terminal, not a corner orientation mark

J111 | U.FL-R-SMT-1(10)
BOTTOM mounting view | native angle 180 deg

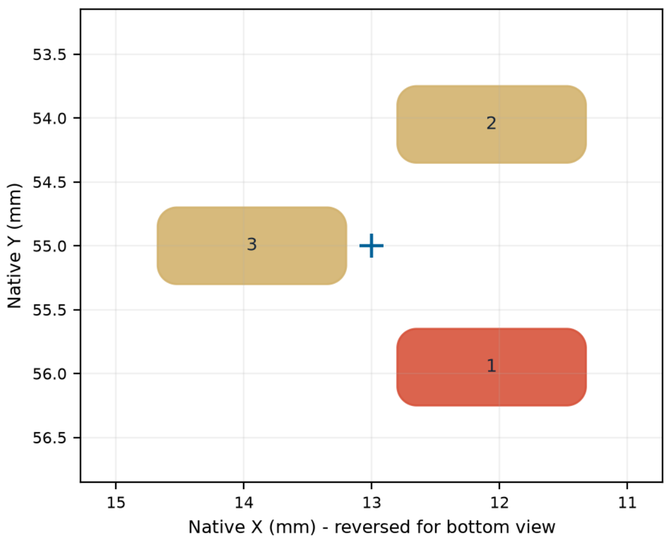


coaxial connector; pad 1 is RF signal terminal, not a corner orientation mark

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

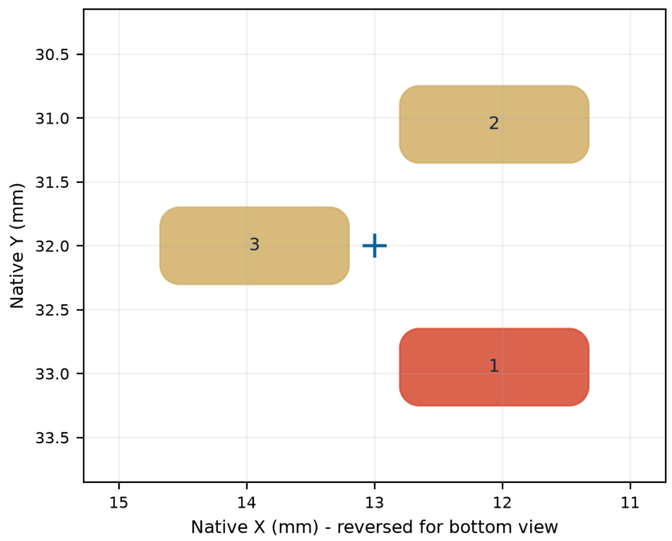
Walkie One 05E | Orientation detail 7/10
Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

Q1 | MMBT3904LT1G
BOTTOM mounting view | native angle 0 deg



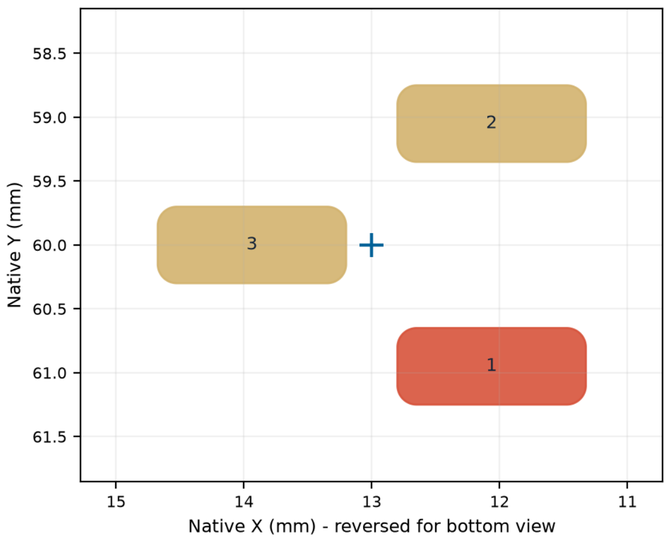
NPN transistor: 1=base, 2=emitter/GND, 3=collector; onsemi CASE318 STYLE6

Q2 | MMBT3904LT1G
BOTTOM mounting view | native angle 0 deg



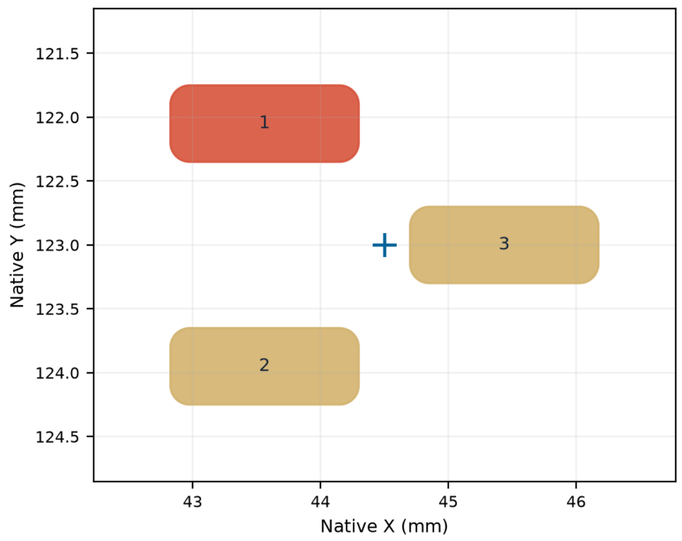
NPN transistor: 1=base, 2=emitter/GND, 3=collector; onsemi CASE318 STYLE6

Q3 | MMBT3904LT1G
BOTTOM mounting view | native angle 0 deg



NPN transistor: 1=base, 2=emitter/GND, 3=collector; onsemi CASE318 STYLE6

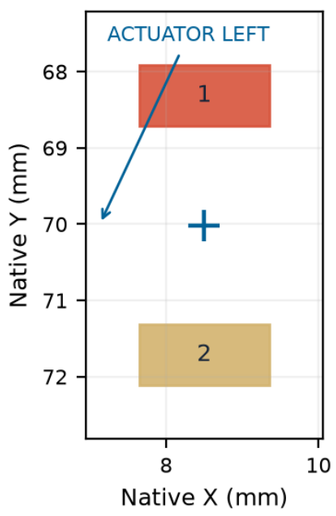
Q4 | MMBT3904LT1G
TOP mounting view | native angle 0 deg



NPN transistor: 1=base, 2=emitter/GND, 3=collector; onsemi CASE318 STYLE6

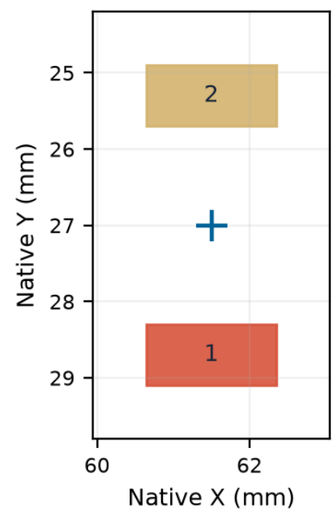
View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

SW1 | B3U-3000P
TOP mounting view | native angle 90 deg



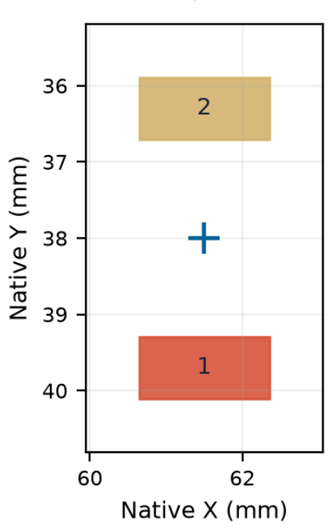
PTT B3U-3000P side switch: actuator points LEFT; terminal 1=BTN_PTT_N, terminal 2=GND; two solder terminals, no locating holes

SW2 | B3U-3000P
TOP mounting view | native angle -90 deg



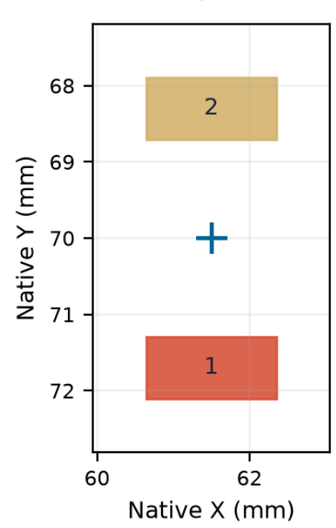
Side-actuated switch; actuator faces board edge; preserve exact part and rotation

SW3 | B3U-3000P
TOP mounting view | native angle -90 deg



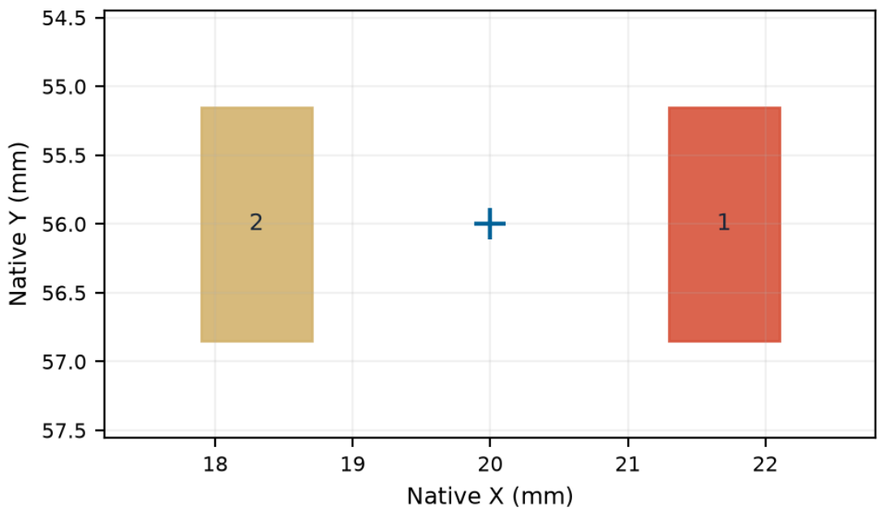
Side-actuated switch; actuator faces board edge; preserve exact part and rotation

SW4 | B3U-3000P
TOP mounting view | native angle -90 deg



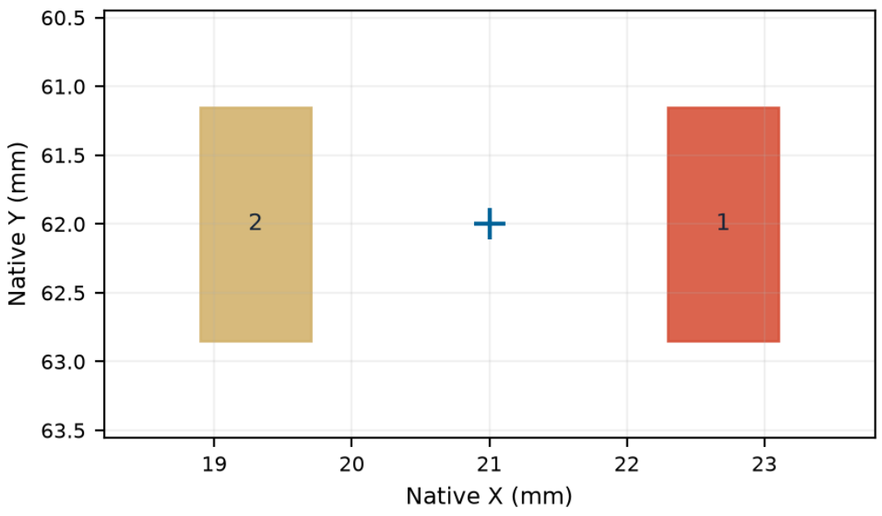
Side-actuated switch; actuator faces board edge; preserve exact part and rotation

SW5 | B3U-1000P
TOP mounting view | native angle 0 deg



Top-actuated service switch; preserve numbered terminals and mounting orientation

SW6 | B3U-1000P
TOP mounting view | native angle 0 deg

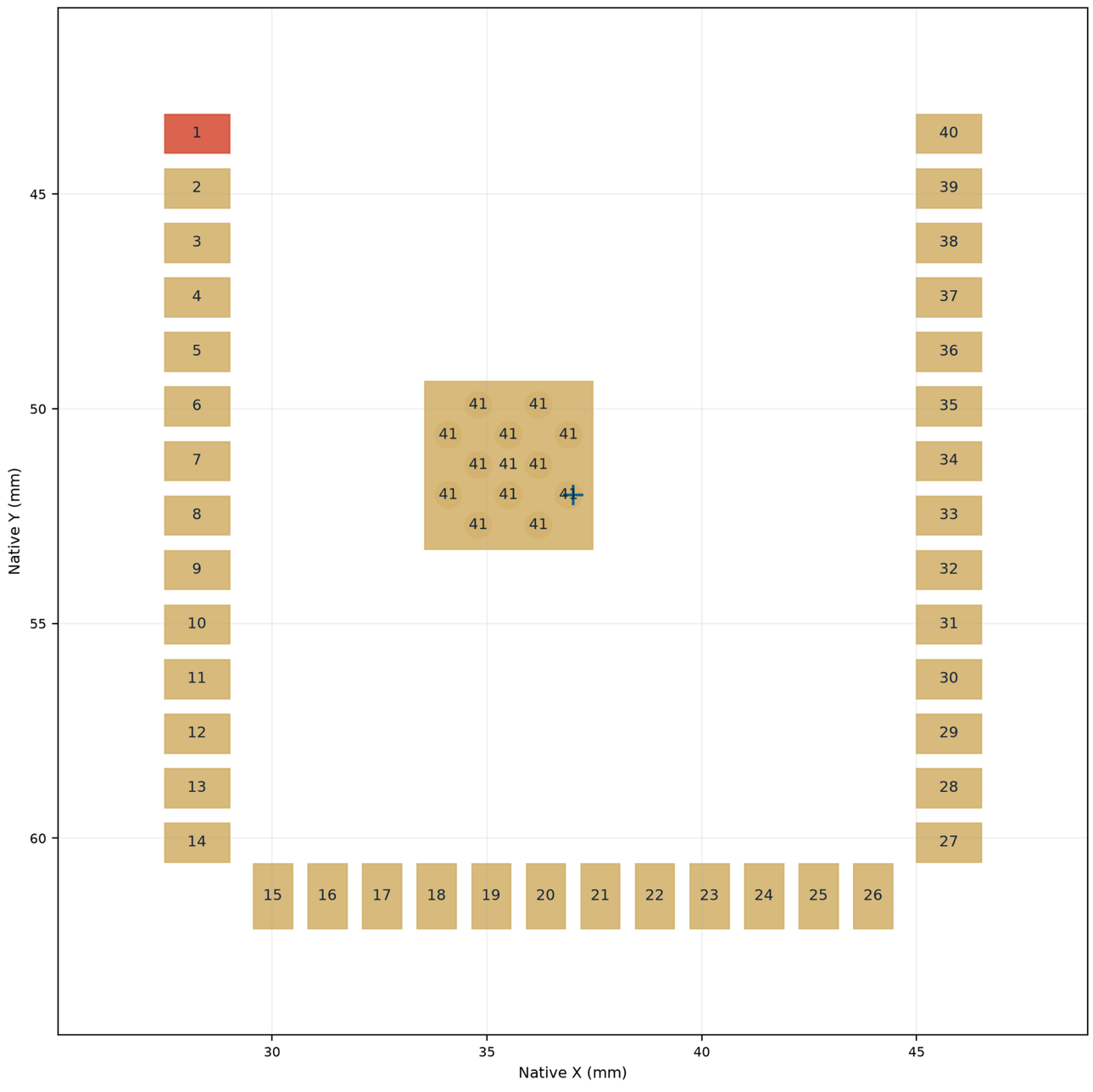


Top-actuated service switch; preserve numbered terminals and mounting orientation

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

Walkie One 05E | Orientation detail 9/10
Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

U1 | ESP32-S3-WROOM-1U-N16R8
TOP mounting view | native angle 0 deg

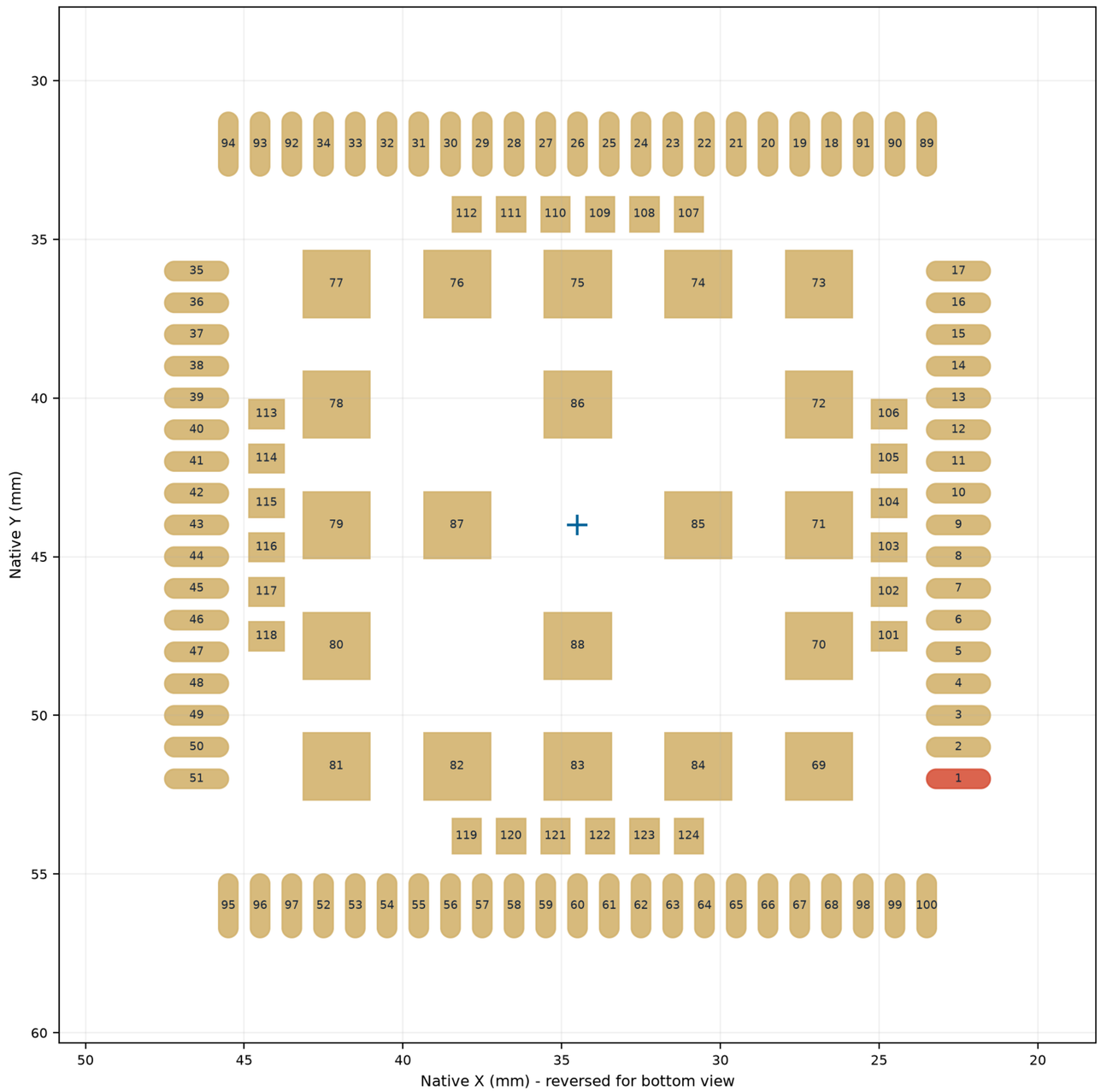


ESP32 module: 1=GND, 40=GND, 41=thermal ground; exact module orientation is mandatory

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

Walkie One 05E | Orientation detail 10/10
Red = reference pad 1 / A1. Blue + = native CPL origin. Actual copper lands, not part bodies.

U90 | SIM7672G-MNGV
BOTTOM mounting view | native angle 0 deg



SIM7672G module: pad 1=PWRKEY; drawing is viewed from bottom mounting surface

View each side from its mounting surface. Match package marks to the manufacturer drawing; native angles are library-relative.
PCB SHA256 5131f81d187a262ea002e6ee6c7ca4d4652a335a05aeba990cd39214f278ea96

Views look directly at each mounting surface. Bottom drawings already show the bottom view; do not mirror them again.
CPL uses the supplied common origin. Red marks pad 1/A1, not necessarily positive (+). Blue marks the placement origin.