


Nordic Semiconductor ASA

nRF52840 Bluetooth Low Energy/ANT/802.15.4/2.4GHz RF Development Board (PCA10056)

| | |
|----------|---------------|
| Sheet 1: | Cover |
| Sheet 3: | Pin Map |
| Sheet 2: | nRF Radio |
| Sheet 4: | Interface MCU |
| Sheet 5: | Miscellaneous |
| Sheet 6: | Connectors |
| Sheet 7: | Power Supply |

× The No ERC object is a design directive.
This directive is placed on a node in the circuit to suppress harmless warnings and/or error violation conditions that are detected when the schematic project is compiled.

• •

| | | | |
|------------------------------------|------------------------|-------------------|---|
| PCA10056 - Cover | | |  |
| Size A3 | Project Number 4440 | Revision 1.1.0 | |
| Date: 2018.03.16 | | Sheet 1 of 7 | |
| File: pca10056_sheet1_cover.SchDoc | | Drawn By: RUBR | |

A

B

C

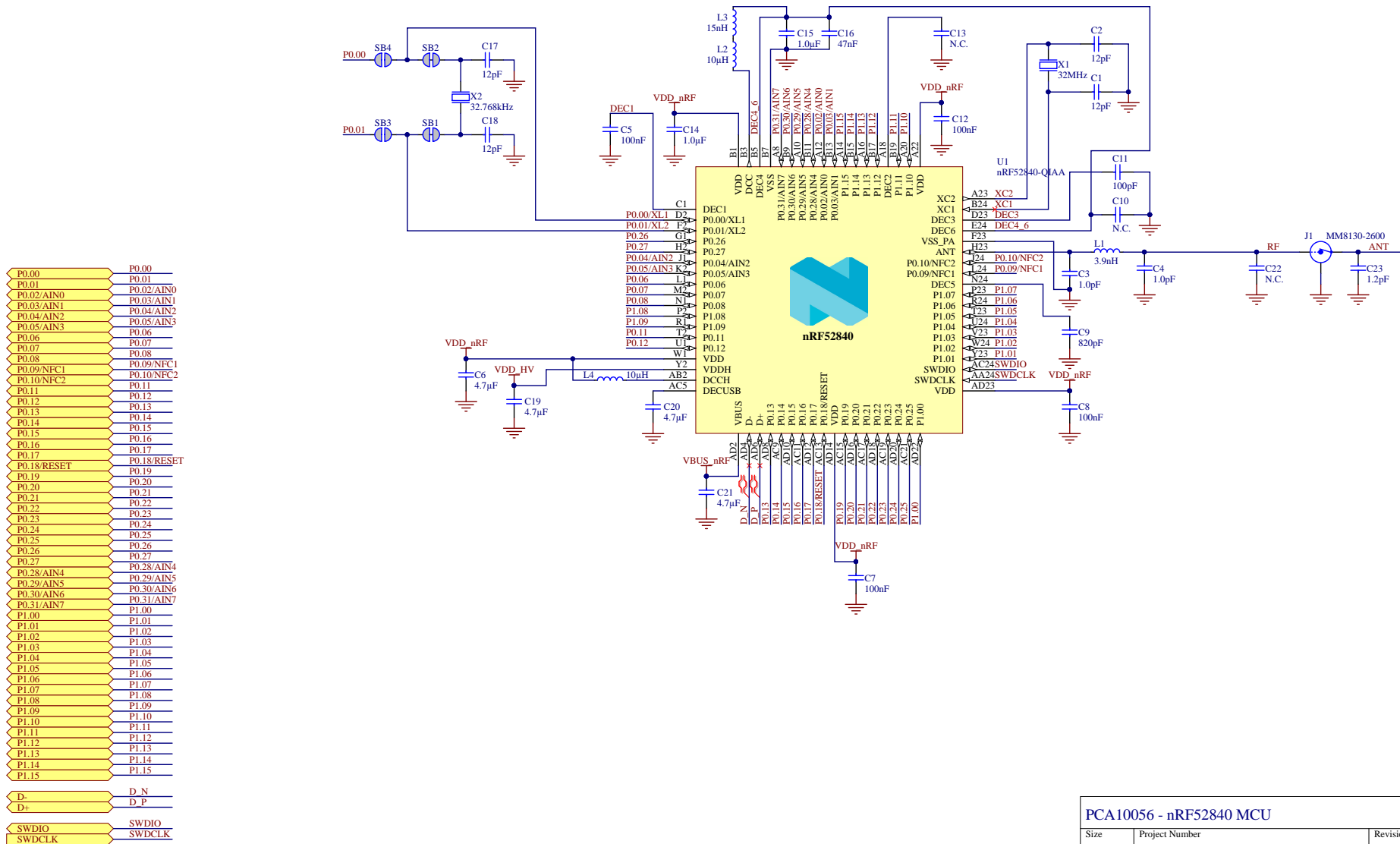
D

A

B

C

D

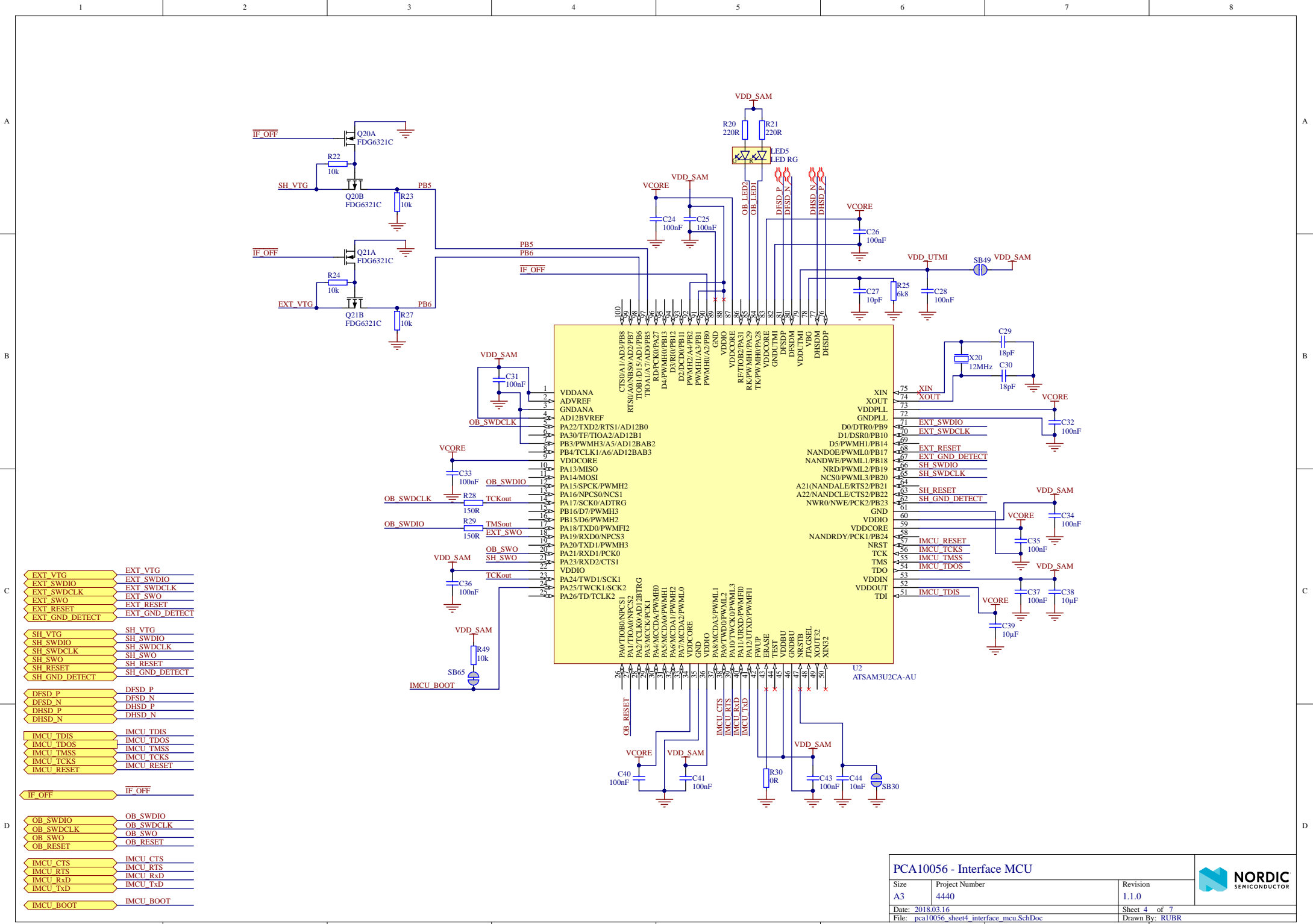


PCA10056 - nRF52840 MCU

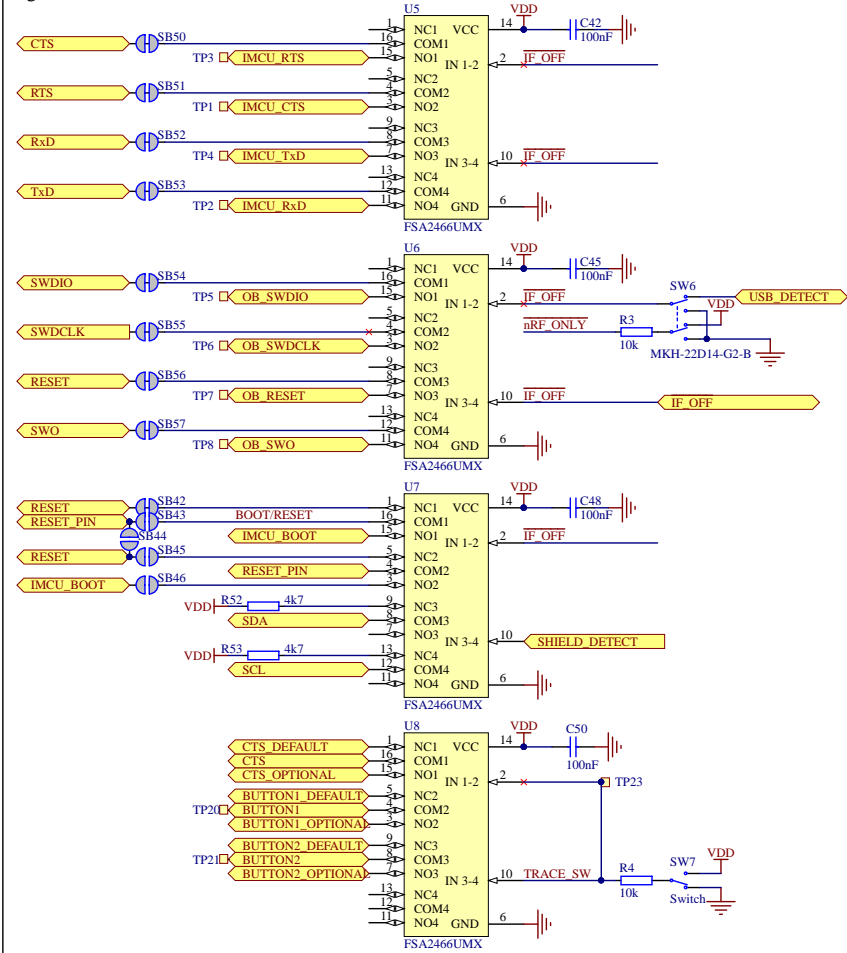
| | | |
|---|----------------|----------|
| Size | Project Number | Revision |
| A3 | 4440 | 1.1.0 |
| Date: 2018.12.04 | Sheet 2 of 7 | |
| File: pca10056_sheet2_nrf52840_mcu.SchDoc | Drawn By: RUBR | |



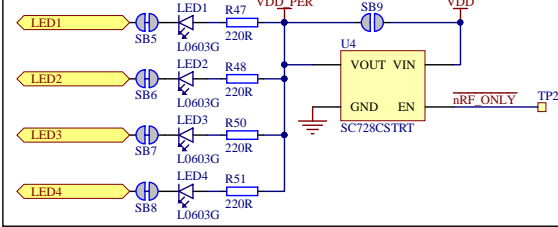
| SWO | P1.00 | D0 | P1.01 |
|------------------|-------------|------|-------------|
| RESET | P0.18/RESET | D1 | P1.02 |
| TRACEDCLK | P0.07 | D2 | P1.03 |
| TRACEDATA0 | P1.00 | D3 | P1.04 |
| TRACEDATA1 | P0.12 | D4 | P1.05 |
| TRACEDATA2 | P0.11 | D5 | P1.06 |
| TRACEDATA3 | P1.09 | D6 | P1.07 |
| | | D7 | P1.08 |
| XL1 | P0.00 | D8 | P1.10 |
| XL2 | P0.01 | D9 | P1.11 |
| | | D10 | P1.12 |
| RTS | P0.05/AIN3 | D11 | P1.13 |
| TxD | P0.06 | D12 | P1.14 |
| CTS_DEFAULT | P0.07 | D13 | P1.15 |
| CTS_OPTIONAL | P0.04/AIN2 | | |
| RxD | P0.08 | | |
| | | D14 | P0.00 |
| | | D15 | P0.01 |
| LED1 | P0.13 | D16 | P0.05/AIN3 |
| LED2 | P0.14 | D17 | P0.06 |
| LED3 | P0.15 | D18 | P0.07 |
| LED4 | P0.16 | D19 | P0.08 |
| | | D20 | P0.09 |
| BUTTON1_DEFAULT | P0.11 | D21 | P0.10 |
| BUTTON1_OPTIONAL | P1.07 | D22 | P0.11 |
| BUTTON2_DEFAULT | P0.12 | D23 | P0.12 |
| BUTTON2_OPTIONAL | P1.08 | D24 | P0.13 |
| BUTTON3 | P0.24 | D25 | P0.14 |
| BUTTON4 | P0.25 | D26 | P0.15 |
| | | D27 | P0.16 |
| QSPI_CS | P0.17 | D28 | P0.17 |
| QSPI_CLK | P0.19 | D29 | P0.18/RESET |
| QSPI_DIO0 | P0.20 | D30 | P0.19 |
| QSPI_DIO1 | P0.21 | D31 | P0.20 |
| QSPI_DIO2 | P0.22 | D32 | P0.21 |
| QSPI_DIO3 | P0.23 | D33 | P0.22 |
| | | D34 | P0.23 |
| | | D35 | P0.24 |
| | | D36 | P0.25 |
| | | D37 | P1.00 |
| | | D38 | P1.09 |
| | | | |
| | | AREF | P0.02/AIN0 |
| | | A0 | P0.03/AIN1 |
| | | A1 | P0.04/AIN2 |
| | | A2 | P0.28/AIN4 |
| | | A3 | P0.29/AIN5 |
| | | A4 | P0.30/AIN6 |
| | | A5 | P0.31/AIN7 |
| SDA | P0.26 | | |
| SCL | P0.27 | | |



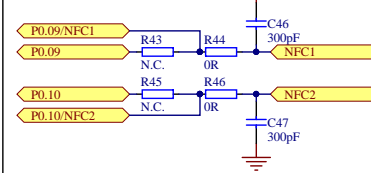
Signal switches



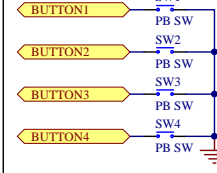
LEDs



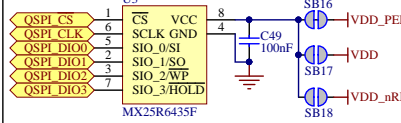
NFC pin configuration



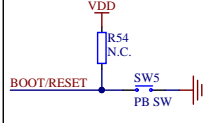
Buttons



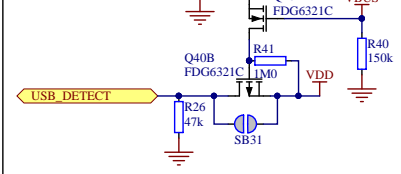
Flash memory



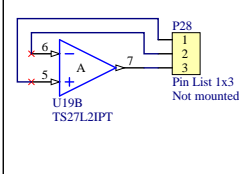
Boot/Reset button



USB detect switch



Extra Op-amp



PCA10056 - Miscellaneous

| | | |
|-----------------------------------|----------------|----------|
| Size | Project Number | Revision |
| A3 | 4440 | 1.1.0 |
| Date: 2018.03.16 | Sheet 5 of 7 | |
| File: pca10056_sheet5_misc.SchDoc | Drawn By: RUBR | |



Bottom Connectors

Top connectors

P7

Pin List 1x8
Not mounted

VIO
V5V
VIN

P1

Socket 1x8

P13

Pin Header 2x8
Not mounted

P8

Pin List 1x6
Not mounted

Analogue in

A0
A1
A2
A3
A4
A5

TP42
TP43
TP44
TP45
TP46
TP47

A0
A1
A2
A3
A4
A5

P2

Socket 1x6

P14

Pin Header 2x6
Not mounted

RESET_PIN

Diagram illustrating the connection of bottom connectors (P7, P8) to top connectors (P1, P13, P14) for the Pico-ITX board. The diagram shows the pin lists and the corresponding connections for various signals.

Bottom Connectors:

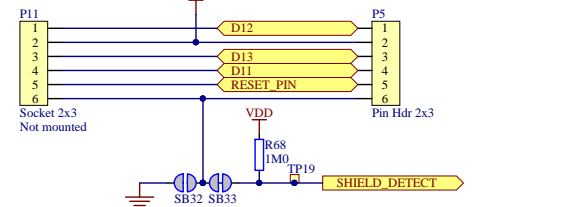
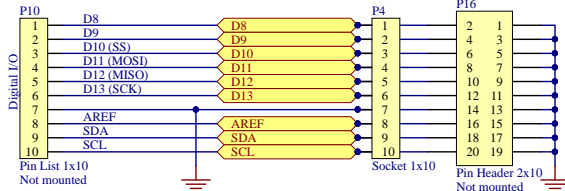
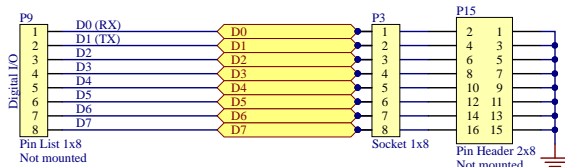
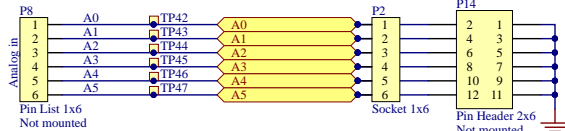
- P7:** Pin List 1x8, Not mounted. Signals: VIO, V5V, VIN.
- P8:** Pin List 1x6, Not mounted. Signals: A0, A1, A2, A3, A4, A5.

Top Connectors:

- P1:** Socket 1x8. Signal: RESET_PIN.
- P13:** Pin Header 2x8, Not mounted.
- P14:** Pin Header 2x6, Not mounted.

Internal Connections:

- TP42, TP43, TP44, TP45, TP46, TP47 are connected to the internal circuitry.
- RESET_PIN is connected to the internal circuitry.



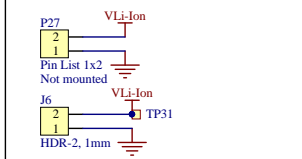
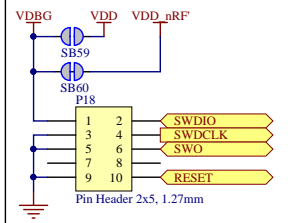
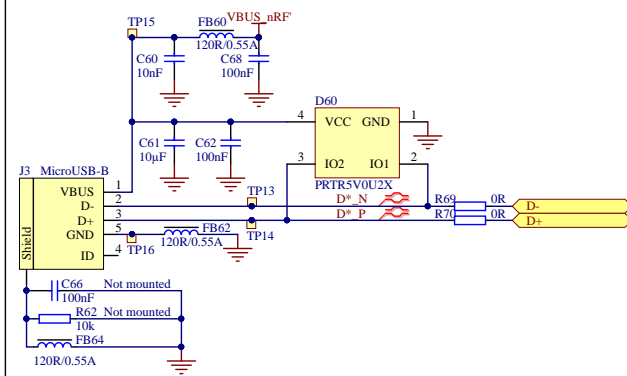
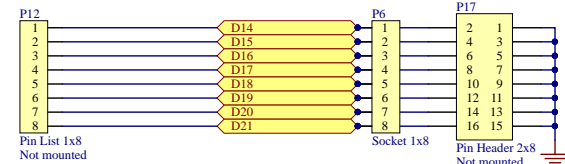
Bottom Connectors

Top connectors

Pin List 1x8
Not mounted

Socket 1x8

Pin Header 2x8
Not mounted



Pin Header 2x10, 1.27mm
Not mounted.

[illegible]

Pin Header Connections for the SB47 module:

- Pin 1: EXT_VTG
- Pin 2: VDD
- Pin 3: EXT_GND_DETECT
- Pin 4: EXT_SWCLK
- Pin 5: EXT_SWIO
- Pin 6: EXT_SWO
- Pin 7: EXT_RESET
- Pin 8: EXT_RESET
- Pin 9: EXT_RESET
- Pin 10: EXT_RESET

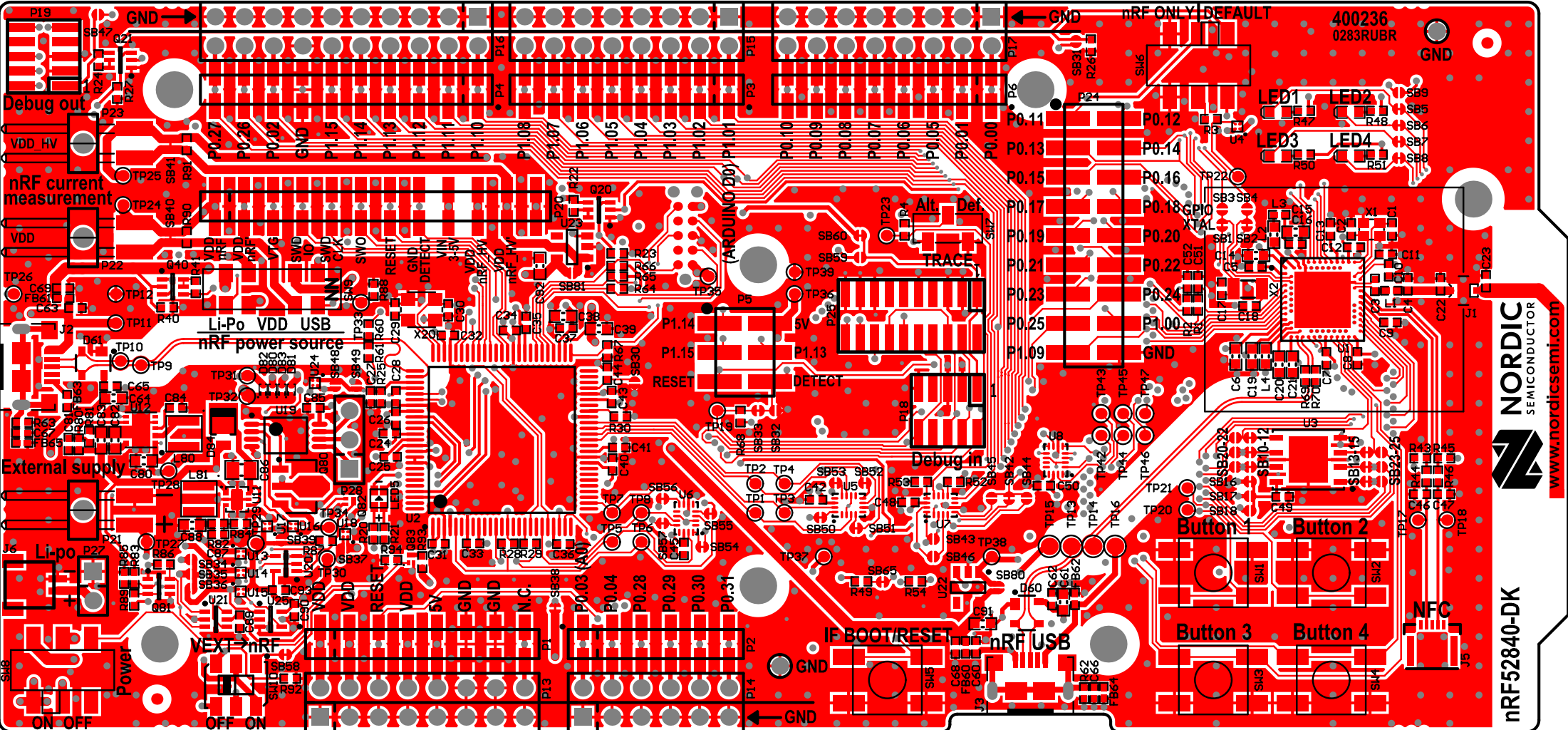
Pin Header 2x5, 1.27mm

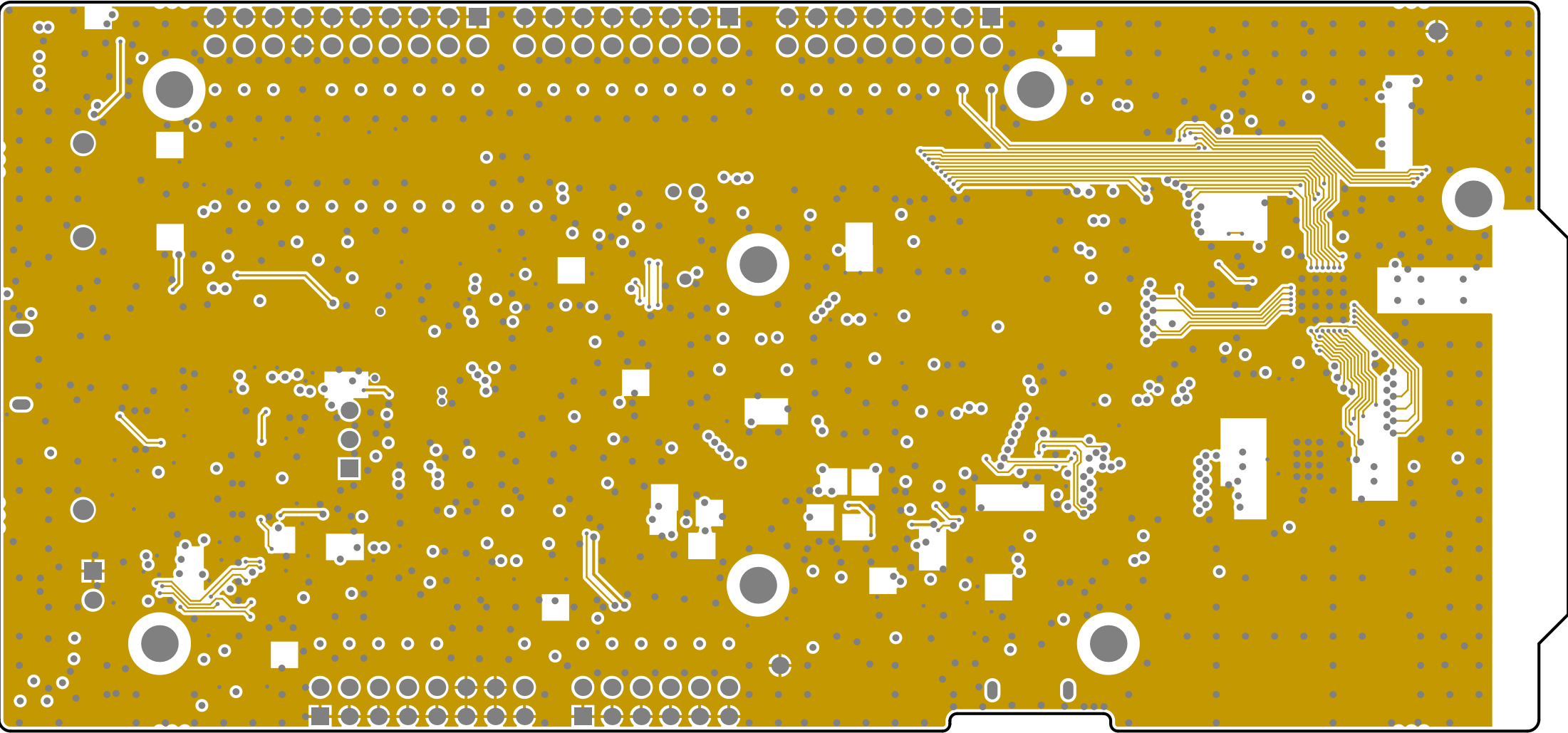
Pin List 1x12

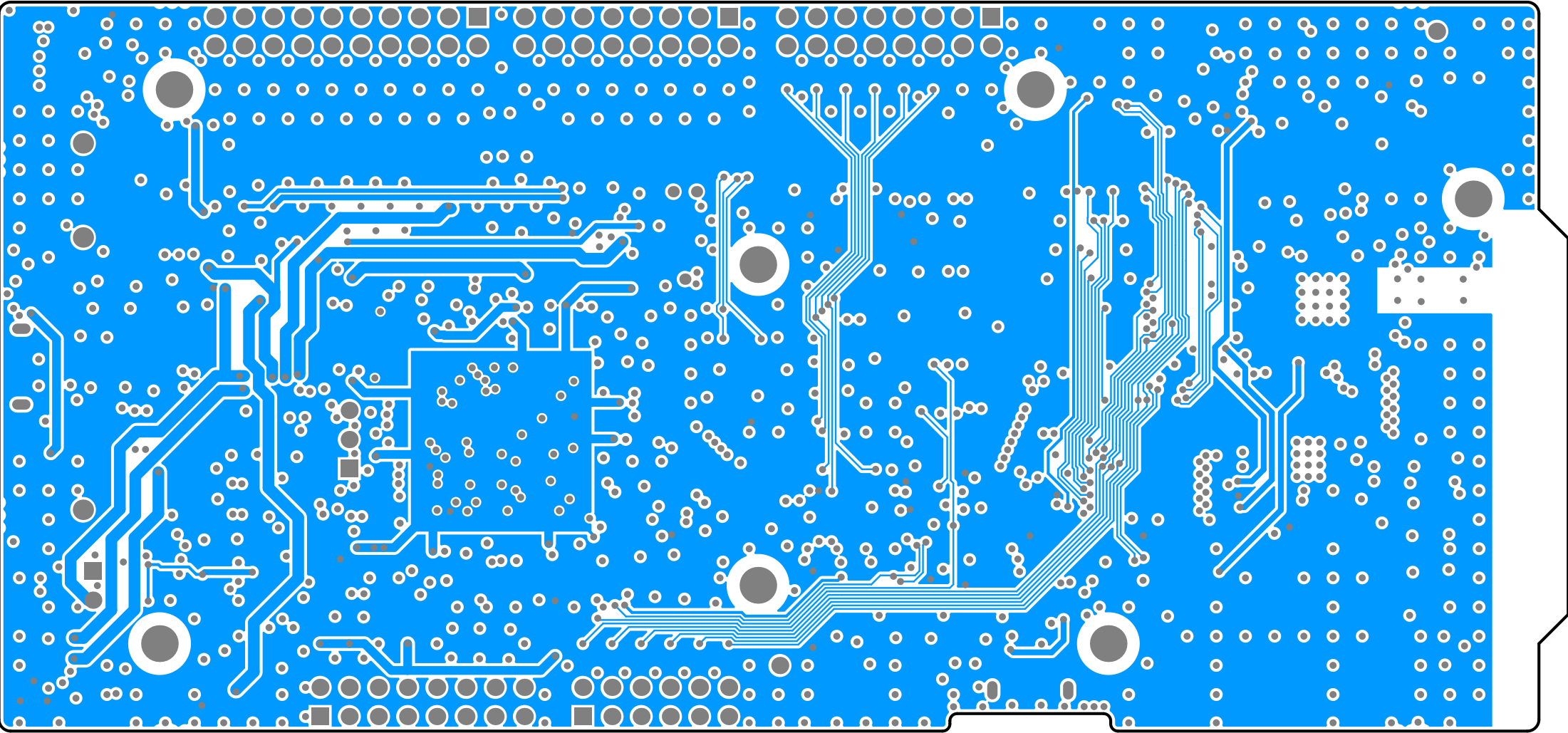
Socket 1x12

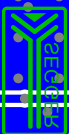
Not mounted

| | |
|--|-------------------------------|
| Size A3 | Project Number 4440 |
| Date: 2018.12.04 | |
| File: pca10056_sheet6_connectors.SchDoc | |









| | | |
|-------|-------|--------|
| P0.53 | P0.03 | SEI050 |
| P0.55 | P0.05 | SEI052 |
| P0.51 | P0.01 | SEI054 |
| P0.50 | P0.00 | SEI055 |
| P0.19 | P0.08 | SEI054 |
| P0.13 | P0.02 | SEI056 |
| P0.10 | P0.00 | SEI057 |
| P0.12 | P0.04 | SEI058 |
| P0.11 | P0.03 | SEI059 |
| P0.14 | P0.06 | SEI060 |
| P0.15 | P0.07 | SEI061 |
| P0.16 | P0.08 | SEI062 |
| P0.17 | P0.09 | SEI063 |
| P0.18 | P0.10 | SEI064 |
| P0.19 | P0.11 | SEI065 |
| P0.20 | P0.12 | SEI066 |
| P0.21 | P0.13 | SEI067 |
| P0.22 | P0.14 | SEI068 |
| P0.23 | P0.15 | SEI069 |
| P0.24 | P0.16 | SEI070 |
| P0.25 | P0.17 | SEI071 |
| P0.26 | P0.18 | SEI072 |
| P0.27 | P0.19 | SEI073 |
| P0.28 | P0.20 | SEI074 |
| P0.29 | P0.21 | SEI075 |
| P0.30 | P0.22 | SEI076 |
| P0.31 | P0.23 | SEI077 |
| P0.32 | P0.24 | SEI078 |
| P0.33 | P0.25 | SEI079 |
| P0.34 | P0.26 | SEI080 |
| P0.35 | P0.27 | SEI081 |
| P0.36 | P0.28 | SEI082 |
| P0.37 | P0.29 | SEI083 |
| P0.38 | P0.30 | SEI084 |
| P0.39 | P0.31 | SEI085 |
| P0.40 | P0.32 | SEI086 |
| P0.41 | P0.33 | SEI087 |
| P0.42 | P0.34 | SEI088 |
| P0.43 | P0.35 | SEI089 |
| P0.44 | P0.36 | SEI090 |
| P0.45 | P0.37 | SEI091 |
| P0.46 | P0.38 | SEI092 |
| P0.47 | P0.39 | SEI093 |
| P0.48 | P0.40 | SEI094 |
| P0.49 | P0.41 | SEI095 |
| P0.50 | P0.42 | SEI096 |
| P0.51 | P0.43 | SEI097 |
| P0.52 | P0.44 | SEI098 |
| P0.53 | P0.45 | SEI099 |
| P0.54 | P0.46 | SEI100 |
| P0.55 | P0.47 | SEI101 |
| P0.56 | P0.48 | SEI102 |
| P0.57 | P0.49 | SEI103 |
| P0.58 | P0.50 | SEI104 |
| P0.59 | P0.51 | SEI105 |
| P0.60 | P0.52 | SEI106 |
| P0.61 | P0.53 | SEI107 |
| P0.62 | P0.54 | SEI108 |
| P0.63 | P0.55 | SEI109 |
| P0.64 | P0.56 | SEI110 |
| P0.65 | P0.57 | SEI111 |
| P0.66 | P0.58 | SEI112 |
| P0.67 | P0.59 | SEI113 |
| P0.68 | P0.60 | SEI114 |
| P0.69 | P0.61 | SEI115 |
| P0.70 | P0.62 | SEI116 |
| P0.71 | P0.63 | SEI117 |
| P0.72 | P0.64 | SEI118 |
| P0.73 | P0.65 | SEI119 |
| P0.74 | P0.66 | SEI120 |
| P0.75 | P0.67 | SEI121 |
| P0.76 | P0.68 | SEI122 |
| P0.77 | P0.69 | SEI123 |
| P0.78 | P0.70 | SEI124 |
| P0.79 | P0.71 | SEI125 |
| P0.80 | P0.72 | SEI126 |
| P0.81 | P0.73 | SEI127 |
| P0.82 | P0.74 | SEI128 |
| P0.83 | P0.75 | SEI129 |
| P0.84 | P0.76 | SEI130 |
| P0.85 | P0.77 | SEI131 |
| P0.86 | P0.78 | SEI132 |
| P0.87 | P0.79 | SEI133 |
| P0.88 | P0.80 | SEI134 |
| P0.89 | P0.81 | SEI135 |
| P0.90 | P0.82 | SEI136 |
| P0.91 | P0.83 | SEI137 |
| P0.92 | P0.84 | SEI138 |
| P0.93 | P0.85 | SEI139 |
| P0.94 | P0.86 | SEI140 |
| P0.95 | P0.87 | SEI141 |
| P0.96 | P0.88 | SEI142 |
| P0.97 | P0.89 | SEI143 |
| P0.98 | P0.90 | SEI144 |
| P0.99 | P0.91 | SEI145 |
| P1.00 | P0.92 | SEI146 |
| P1.01 | P0.93 | SEI147 |
| P1.02 | P0.94 | SEI148 |
| P1.03 | P0.95 | SEI149 |
| P1.04 | P0.96 | SEI150 |
| P1.05 | P0.97 | SEI151 |
| P1.06 | P0.98 | SEI152 |
| P1.07 | P0.99 | SEI153 |
| P1.08 | P1.00 | SEI154 |
| P1.09 | P1.01 | SEI155 |
| P1.10 | P1.02 | SEI156 |
| P1.11 | P1.03 | SEI157 |
| P1.12 | P1.04 | SEI158 |
| P1.13 | P1.05 | SEI159 |
| P1.14 | P1.06 | SEI160 |
| P1.15 | P1.07 | SEI161 |
| P1.16 | P1.08 | SEI162 |
| P1.17 | P1.09 | SEI163 |
| P1.18 | P1.10 | SEI164 |
| P1.19 | P1.11 | SEI165 |
| P1.20 | P1.12 | SEI166 |
| P1.21 | P1.13 | SEI167 |
| P1.22 | P1.14 | SEI168 |
| P1.23 | P1.15 | SEI169 |
| P1.24 | P1.16 | SEI170 |
| P1.25 | P1.17 | SEI171 |
| P1.26 | P1.18 | SEI172 |
| P1.27 | P1.19 | SEI173 |
| P1.28 | P1.20 | SEI174 |
| P1.29 | P1.21 | SEI175 |
| P1.30 | P1.22 | SEI176 |
| P1.31 | P1.23 | SEI177 |
| P1.32 | P1.24 | SEI178 |
| P1.33 | P1.25 | SEI179 |
| P1.34 | P1.26 | SEI180 |
| P1.35 | P1.27 | SEI181 |
| P1.36 | P1.28 | SEI182 |
| P1.37 | P1.29 | SEI183 |
| P1.38 | P1.30 | SEI184 |
| P1.39 | P1.31 | SEI185 |
| P1.40 | P1.32 | SEI186 |
| P1.41 | P1.33 | SEI187 |
| P1.42 | P1.34 | SEI188 |
| P1.43 | P1.35 | SEI189 |
| P1.44 | P1.36 | SEI190 |
| P1.45 | P1.37 | SEI191 |
| P1.46 | P1.38 | SEI192 |
| P1.47 | P1.39 | SEI193 |
| P1.48 | P1.40 | SEI194 |
| P1.49 | P1.41 | SEI195 |
| P1.50 | P1.42 | SEI196 |
| P1.51 | P1.43 | SEI197 |
| P1.52 | P1.44 | SEI198 |
| P1.53 | P1.45 | SEI199 |
| P1.54 | P1.46 | SEI200 |
| P1.55 | P1.47 | SEI201 |
| P1.56 | P1.48 | SEI202 |
| P1.57 | P1.49 | SEI203 |
| P1.58 | P1.50 | SEI204 |
| P1.59 | P1.51 | SEI205 |
| P1.60 | P1.52 | SEI206 |
| P1.61 | P1.53 | SEI207 |
| P1.62 | P1.54 | SEI208 |
| P1.63 | P1.55 | SEI209 |
| P1.64 | P1.56 | SEI210 |
| P1.65 | P1.57 | SEI211 |
| P1.66 | P1.58 | SEI212 |
| P1.67 | P1.59 | SEI213 |
| P1.68 | P1.60 | SEI214 |
| P1.69 | P1.61 | SEI215 |
| P1.70 | P1.62 | SEI216 |
| P1.71 | P1.63 | SEI217 |
| P1.72 | P1.64 | SEI218 |
| P1.73 | P1.65 | SEI219 |
| P1.74 | P1.66 | SEI220 |
| P1.75 | P1.67 | SEI221 |
| P1.76 | P1.68 | SEI222 |
| P1.77 | P1.69 | SEI223 |
| P1.78 | P1.70 | SEI224 |
| P1.79 | P1.71 | SEI225 |
| P1.80 | P1.72 | SEI226 |
| P1.81 | P1.73 | SEI227 |
| P1.82 | P1.74 | SEI228 |
| P1.83 | P1.75 | SEI229 |
| P1.84 | P1.76 | SEI230 |
| P1.85 | P1.77 | SEI231 |
| P1.86 | P1.78 | SEI232 |
| P1.87 | P1.79 | SEI233 |
| P1.88 | P1.80 | SEI234 |
| P1.89 | P1.81 | SEI235 |
| P1.90 | P1.82 | SEI236 |
| P1.91 | P1.83 | SEI237 |
| P1.92 | P1.84 | SEI238 |
| P1.93 | P1.85 | SEI239 |
| P1.94 | P1.86 | SEI240 |
| P1.95 | P1.87 | SEI241 |
| P1.96 | P1.88 | SEI242 |
| P1.97 | P1.89 | SEI243 |
| P1.98 | P1.90 | SEI244 |
| P1.99 | P1.91 | SEI245 |
| P2.00 | P1.92 | SEI246 |
| P2.01 | P1.93 | SEI247 |
| P2.02 | P1.94 | SEI248 |
| P2.03 | P1.95 | SEI249 |
| P2.04 | P1.96 | SEI250 |
| P2.05 | P1.97 | SEI251 |
| P2.06 | P1.98 | SEI252 |
| P2.07 | P1.99 | SEI253 |
| P2.08 | P2.00 | SEI254 |
| P2.09 | P2.01 | SEI255 |
| P2.10 | P2.02 | SEI256 |
| P2.11 | P2.03 | SEI257 |
| P2.12 | P2.04 | SEI258 |
| P2.13 | P2.05 | SEI259 |
| P2.14 | P2.06 | SEI260 |
| P2.15 | P2.07 | SEI261 |
| P2.16 | P2.08 | SEI262 |
| P2.17 | P2.09 | SEI263 |
| P2.18 | P2.10 | SEI264 |
| P2.19 | P2.11 | SEI265 |
| P2.20 | P2.12 | SEI266 |
| P2.21 | P2.13 | SEI267 |
| P2.22 | P2.14 | SEI268 |
| P2.23 | P2.15 | SEI269 |
| P2.24 | P2.16 | SEI270 |
| P2.25 | P2.17 | SEI271 |
| P2.26 | P2.18 | SEI272 |
| P2.27 | P2.19 | SEI273 |
| P2.28 | P2.20 | SEI274 |
| P2.29 | P2.21 | SEI275 |
| P2.30 | P2.22 | SEI276 |
| P2.31 | P2.23 | SEI277 |
| P2.32 | P2.24 | SEI278 |
| P2.33 | P2.25 | SEI279 |
| P2.34 | P2.26 | SEI280 |
| P2.35 | P2.27 | SEI281 |
| P2.36 | P2.28 | SEI282 |
| P2.37 | P2.29 | SEI283 |
| P2.38 | P2.30 | SEI284 |
| P2.39 | P2.31 | SEI285 |
| P2.40 | P2.32 | SEI286 |
| P2.41 | P2.33 | SEI287 |
| P2.42 | P2.34 | SEI288 |
| P2.43 | P2.35 | SEI289 |
| P2.44 | P2.36 | SEI290 |
| P2.45 | P2.37 | SEI291 |
| P2.46 | P2.38 | SEI292 |
| P2.47 | P2.39 | SEI293 |
| P2.48 | P2.40 | SEI294 |
| P2.49 | P2.41 | SEI295 |
| P2.50 | P2.42 | SEI296 |
| P2.51 | P2.43 | SEI297 |
| P2.52 | P2.44 | SEI298 |
| P2.53 | P2.45 | SEI299 |
| P2.54 | P2.46 | SEI300 |
| P2.55 | P2.47 | SEI301 |
| P2.56 | P2.48 | SEI302 |
| P2.57 | P2.49 | SEI303 |
| P2.58 | P2.50 | SEI304 |
| P2.59 | P2.51 | SEI305 |
| P2.60 | P2.52 | SEI306 |
| P2.61 | P2.53 | SEI307 |
| P2.62 | P2.54 | SEI308 |
| P2.63 | P2.55 | SEI309 |
| P2.64 | P2.56 | SEI310 |
| P2.65 | P2.57 | SEI311 |
| P2.66 | P2.58 | SEI312 |
| P2.67 | P2.59 | SEI313 |
| P2.68 | P2.60 | SEI314 |
| P2.69 | P2.61 | SEI315 |
| P2.70 | P2.62 | SEI316 |
| P2.71 | P2.63 | SEI317 |
| P2.72 | P2.64 | SEI318 |
| P2.73 | P2.65 | SEI319 |
| P2.74 | P2.66 | SEI320 |
| P2.75 | P2.67 | SEI321 |
| P2.76 | P2.68 | SEI322 |
| P2.77 | P2.69 | SEI323 |
| P2.78 | P2.70 | SEI324 |
| P2.79 | P2.71 | SEI325 |
| P2.80 | P2.72 | SEI326 |
| P2.81 | P2.73 | SEI327 |
| P2.82 | P2.74 | SEI328 |
| P2.83 | P2.75 | SEI329 |
| P2.84 | P2.76 | SEI330 |
| P2.85 | P2.77 | SEI331 |
| P2.86 | P2.78 | SEI332 |
| P2.87 | P2.79 | SEI333 |
| P2.88 | P2.80 | SEI334 |
| P2.89 | P2.81 | SEI335 |
| P2.90 | P2.82 | SEI336 |
| P2.91 | P2.83 | SEI337 |
| P2.92 | P2.84 | SEI338 |
| P2.93 | P2.85 | SEI339 |
| P2.94 | P2.86 | SEI340 |
| P2.95 | P2.87 | SEI341 |
| P2.96 | P2.88 | SEI342 |
| P2.97 | P2.89 | SEI343 |
| P2.98 | P2.90 | SEI344 |
| P2.99 | P2.91 | SEI345 |
| P3.00 | P2.92 | SEI346 |
| P3.01 | P2.93 | SEI347 |
| P3.02 | P2.94 | SEI348 |
| P3.03 | P2.95 | SEI349 |
| P3.04 | P2.96 | SEI350 |
| P3.05 | P2.97 | SEI351 |
| P3.06 | P2.98 | SEI352 |
| P3.07 | P2.99 | SEI353 |
| P3.08 | P3.00 | SEI354 |
| P3.09 | P3.01 | SEI355 |
| P3.10 | P3.02 | SEI356 |
| P3.11 | P3.03 | SEI357 |
| P3.12 | P3.04 | SEI358 |
| P3.13 | P3.05 | SEI359 |
| P3.14 | P3.06 | SEI360 |
| P3.15 | P3.07 | SEI361 |
| P3.16 | P3.08 | SEI362 |
| P3.17 | P3.09 | SEI363 |
| P3.18 | P3.10 | SEI364 |
| P3.19 | P3.11 | SEI365 |
| P3.20 | P3.12 | SEI366 |
| P3.21 | P3.13 | SEI367 |
| P3.22 | P3.14 | SEI368 |
| P3.23 | P3.15 | SEI369 |
| P3.24 | P3.16 | SEI370 |
| P3.25 | P3.17 | SEI371 |
| P3.26 | P3.18 | SEI372 |
| P3.27 | P3.19 | SEI373 |
| P3.28 | P3.20 | SEI374 |
| P3.29 | P3.21 | SEI375 |
| P3.30 | P3.22 | SEI376 |
| P3.31 | P3.23 | SEI377 |
| P3.32 | P3.24 | SEI378 |
| P3.33 | P3.25 | SEI379 |
| P3.34 | P3.26 | SEI380 |
| P3.35 | P3.27 | SEI381 |
| P3.36 | P3.28 | SEI382 |
| P3.37 | P3.29 | SEI383 |
| P3.38 | P3.30 | SEI384 |
| P3.39 | P3.31 | SEI385 |
| P3.40 | P3.32 | SEI386 |
| P3.41 | P3.33 | SEI387 |
| P3.42 | P3.34 | SEI388 |
| P3.43 | P3.35 | SEI389 |
| P3.44 | P3.36 | SEI390 |
| P3.45 | P3.37 | SEI391 |
| P3.46 | P3.38 | SEI392 |
| P3.47 | P3.39 | SEI393 |
| P3.48 | P3.40 | SEI394 |
| P3.49 | P3.41 | SEI395 |
| P3.50 | P3.42 | SEI396 |
| P3.51 | P3.43 | SEI397 |
| P3.52 | P3.44 | SEI398 |
| P3.53 | P3.45 | SEI399 |
| P3.54 | P3.46 | SEI400 |
| P3.55 | P3.47 | SEI401 |
| P3.56 | P3.48 | SEI402 |
| P3.57 | P3.49 | SEI403 |
| P3.58 | P3.50 | SEI404 |
| P3.59 | P3.51 | SEI405 |
| P3.60 | P3.52 | SEI406 |
| P3.61 | P3.53 | SEI407 |
| P3.62 | P3.54 | SEI408 |
| P3.63 | P3.55 | SEI409 |
| P3.64 | P3.56 | SEI410 |
| P3.65 | P3.57 | SEI411 |
| P3.66 | P3.58 | SEI412 |
| P3.67 | P3.59 | SEI413 |
| P3.68 | P3.60 | SEI414 |
| P3.69 | P3.61 | SEI415 |
| P3.70 | P3.62 | SEI416 |
| P3.71 | P3.63 | SEI417 |
| P3.72 | P3.64 | SEI418 |
| P3.73 | P3.65 | SEI419 |
| P3.74 | P3.66 | SEI420 |
| P3.75 | P3.67 | SEI421 |
| P3.76 | P3.68 | SEI422 |
| P3.77 | P3.69 | SEI423 |
| P3.78 | P3.70 | SEI424 |
| P3.79 | P3.71 | SEI425 |
| P3.80 | P3.72 | SEI426 |
| P3.81 | P3.73 | SEI427 |
| P3.82 | P3.74 | SEI428 |
| P3.83 | P3.75 | SEI429 |
| P3.84 | P3.76 | SEI430 |
| P3.85 | P3.77 | SEI431 |
| P3.86 | P3.78 | SEI432 |
| P3.87 | P3.79 | SEI433 |
| P3.8 | | |

