

Bill of material

Board:PCA64167

Version:0.1.0

Number of boards:1

| Designator | PartId | Total needed | Comment | Value | Footprint Doc | Description | Assembly | Layer | Quantity | Manufacturer | Manufacturer Part Number | Supplier 1 | Supplier Part Number 1 | Supplier 2 | Supplier Part Number 2 |
|---|--------|--------------|---------|------------------|------------------------|---|----------|--------|----------|---------------------|--------------------------|------------|------------------------|------------|-----------------------------|
| C3 | | 1 | | 1.0µF | 0402 | Capacitor, Ceramic, 1.0µF 16V X6S 0402,±10% | DNP | Top | 1 | Murata | GRM155C81C105KE11J | Mouser | 81-GRM155C81C105KE1 | Digi-Key | 490-GRM155C81C105KE11JCT-ND |
| C4 | | 1 | | 1.0µF | 0402 | Capacitor, Ceramic, 1.0µF 10V X7S 0402,±10% | DNP | Top | 1 | Murata | GRM155C71A105KE11 | Mouser | 81-GRM155C71A105KE1 | Digi-Key | 490-14457-1-ND |
| Fid1, Fid2 | | 2 | | N.A. | Fiducial | Fiducial Mark | DNP | Top | 2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |
| P1, P3 | | 2 | | Socket 1x8 | SOCKET_1x8_SMD | Socket 1x8, 2.54mm (100mil), SMD | | Top | 2 | W-CON | 2171-108MS0CUNR1 | Cabcon | 2171-108MS0CUNR1 | Samtec | SSM-108-F-SV-P-TR |
| P2 | | 1 | | Socket 1x6 | SOCKET_1x6_SMD | Socket 1x6, 2.54mm (100mil), SMD | | Top | 1 | W-CON | 2171-106MS0CUNR1 | Cabcon | 2171-106MS0CUNR1 | Samtec | SSM-106-F-SV-P-TR |
| P4 | | 1 | | Socket 1x10 | SOCKET_1x10_SMD | Socket 1x10, 2.54mm (100mil), SMD | | Top | 1 | W-CON | 2171-110MS0CUNR1 | Cabcon | 2171-110MS0CUNR1 | Samtec | SSM-110-F-SV-P-TR |
| P5 | | 1 | | Socket 2x20 | SOCKET_2x20_SMD-2.54mm | Socket 2x20, 2.54mm (100mil), SMD | | Bottom | 1 | Samtec | SSW-120-22-F-D-VS-K | Digi-Key | SAM8867-ND | Robu.in | SKU: 535464 |
| P6, P11 | | 2 | | Pin List 1x2 | LIST_1x2 | Pin List 1x2, 2.54mm (100mil) | DNP | Top | 2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |
| P7, P10 | | 2 | | Pin Header 2x3 | HDR_2x3 | Pin Header 2x3, 2.54mm (100mil) | DNP | Top | 2 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |
| P8 | | 1 | | Card Edge, 0.8mm | 10056847-101LF | 0.8mm pitch, dual edge, right angle, SMD, card edge connector | DNP | Bottom | 1 | FCI | 10056847-101LF | Digi-Key | 609-4943-1-ND | N.A. | N.A. |
| P9 | | 1 | | Pin List 1x3 | LIST_1x3 | Pin List 1x3, 2.54mm (100mil) | | Top | 1 | N.A. | N.A. | N.A. | N.A. | N.A. | N.A. |
| R1, R2, R3, R4, R5, R6, R7, R8, R9, R11 | | 10 | | 0R | 0402 | Resistor, ±5%, 0.063W | DNP | Top | 10 | N.A. | N.A. | Farnell | 146-9661 | N.A. | N.A. |
| R10 | | 1 | | 0R | 0402 | Resistor, ±5%, 0.063W | DNP | Top | 1 | N.A. | N.A. | Farnell | 146-9661 | N.A. | N.A. |
| R12 | | 1 | | 48k7 | 0402 | Resistor, ±1%, 0.063W | DNP | Top | 1 | Yageo | RC0402FR-0748K7L | Mouser | 603-RC0402FR-0748K7L | Digi-Key | YAG3169CT-ND |
| R15 | | 1 | | 18k | 0402 | Resistor, ±1%, 0.063W | DNP | Top | 1 | N.A. | N.A. | Farnell | 173-8867 | N.A. | N.A. |
| U1 | | 1 | | AP2127 | SOT23-5 | IC REG LDO ADJ 0.3A SOT23-5 | DNP | Top | 1 | Diodes Incorporated | AP2127K-ADJTRG1 | Digi-Key | AP2127K-ADJTRG1DITR | N.A. | N.A. |

All components must be RoHS compliant

DNP(Do not populate): These components are meant for a future release of a nRF7002 Expansion Board (EB)

Place a Short on: P9(pin2 to pin3)