

Job Name: **BOM B41101.BMB**

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Build Sides: **Parts Not Stuffed**

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| Find | Count | Ref_Des | Part_Number | Description |
|------|-------|-------------------------|-----------------------------|--|
| 1 | 1 | Y3 | 500SAAA-ACF @ UNASSIGNED | Crystal DNP Silicon Labs SI500S programmable oscil |
| 2 | 5 | R39, R40, R50, R51, R52 | RC0603F49R9C @ UNASSIGNE | =P/N=50 RESISTOR, American symbol R0201 1276-3590- |
| 3 | 3 | C5, C9, C23 | DNI @ UNASSIGNED | DNP CAPACITOR, European symbol C0603 |
| 4 | 5 | R1, R2, R4, R6, R26 | DNI @ UNASSIGNED | DNP RESISTOR, American symbol R0603 |

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Build Sides: **SMT Hand Parts RED = Top**

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| | | | | |
|---|---|--------|--------------------------|--|
| 5 | 1 | J2 | 10104111-0001LF @ UNASSI | Jack USB MICROAB SMT USB Connector USB MICROAB SMT |
| 6 | 2 | X1, X2 | 142-0701-801 @ UNASSIGNE | Other SMA-142-0701-801/806 SMA 50 Ohm End Launch J |
| 7 | 1 | X3 | 15912080 @ UNASSIGNED | Other HEADER 0.1 8P 2R SMT" HEADER 8P 2R SMT WM174 |
| 8 | 1 | J1 | 436500212 @ UNASSIGNED | Jack MICRO-FIT 3.0 2POS RA SMD MICRO-FIT 3.02POS R |
| 9 | 1 | X4 | 878321420 @ UNASSIGNED | Other 87832-14 Milli-Grid Header 87832-14 WM18641- |

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Build Sides: **Thru Hole Hand Parts RED = Top**

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|------|-------|---------|-----------------------------|--|-------------|
| 10 | 1 | S1 | AYZ0102AGRLC @ UNASSIGNE | SLIDER SPDT AYZ0102AGRLC SPDT Slider switch from C | |

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Build Slides: **SMT Machine Parts**

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|------|-------|--|--------------------------|---|
| 11 | 10 | C37, C38, C42, C43, C46, C56, C58, C62, C63, C76 | 1276-1779-1-ND @ 0204 | .47uF Capacitors. 0204REVERSE |
| 12 | 2 | R60, R61 | 1276-3577-1-ND @ 0201 | 27 RESISTOR, American symbol R0201 |
| 13 | 2 | R12, R19 | 1276-3719-1-ND @ 0201 | 150K RESISTOR, American symbol R0201 |
| 14 | 1 | R42 | 1276-4779-1-ND @ 0603 | 26.1k RESISTOR, American symbol R0603 |
| 15 | 1 | R46 | 1276-5091-1-ND @ 0603 | 16k RESISTOR, American symbol R0603 |
| 16 | 1 | R58 | 311-0.0GRCT-ND @ 0603 | 0 RESISTOR, American symbol R0603 |
| 17 | 2 | C78, C79 | 445-13726-1-ND @ 0201 | 4.7nF CAPACITOR, European symbol C0201 |
| 18 | 6 | C10, C11, C14, C27, C28, C29 | 445-1769-1-ND @ 0201 | 10pF CAPACITOR, European symbol C0201 |
| 19 | 2 | C99, C100 | 445-1782-1-ND @ 0201 | 47pF CAPACITOR, European symbol C0201 |
| 20 | 6 | C85, C93, C94, C95, C97, C98 | 445-1793-1-ND @ 0201 | 10nF CAPACITOR, European symbol C0201 |
| 21 | 12 | C1, C2, C3, C4, C8, C16, C17, C18, C19, C20, C21, C22 | 445-4112-1-ND @ 0603 | 10uF CAPACITOR, European symbol C0603 |
| 22 | 1 | C77 | 445-4675-1-ND @ 0201 | 100pF CAPACITOR, European symbol C0201 |
| 23 | 10 | C12, C13, C15, C30, C31, C32, C39, C40, C83, C88 | 445-8238-1-ND @ 0805 | 33uF Capacitor 805 |
| 24 | 3 | C87, C90, C104 | 445-9091-1-ND @ 0204 | 1uF Capacitors. 0204REVERSE |
| 25 | 1 | Y1 | 530FC500M000DG @ LCC-06- | SI530-500 Crystal Oscillator from Silicon Labs. Fa |
| 26 | 2 | L5, L8 | 541-1220-1-ND @ IND-SMT- | Inductor 2.2uH Inductors. 5.18X5.49 VISHAY |
| 27 | 4 | L3, L4, L6, L7 | 541-1322-1-ND @ IND-SMT- | Inductor 2.2uH Inductors. 3.0X3.6 VISHAY |
| 28 | 30 | C7, C44, C45, C47, C48, C49, C50, C54, C55, C59, C60, C64, C65, C67, C68, C70, C71, C73, C75, C80, C81, C82, C84, C86, C91, C92, C96, C101, C102, C103 | 587-2152-1-ND @ 0204 | .1uF Capacitors. 0204REVERSE |
| 29 | 1 | L1 | ACM7060-301-2PL-TL01 @ X | Inductor CHOKE CM ACM7060-301 Common mode choke. A |
| 30 | 1 | U1 | ADC08D500CIYB/NOPB @ QFP | ADC08D500 TI ADC08D500 is a dual ADC running at 50 |
| 31 | 1 | U12 | ADCMP553BRMZ @ GW-08-.65 | IC ADCMP553BRMZ PECL/LVPECL Comparators SOP65P490X |
| 32 | 5 | L2, L9, L10, L11, L12 | BLM18SG260TN1D @ 0603 | 26 Ferrite bead. MURATA BLM18 490-3995-1-ND |
| 33 | 1 | L13 | BLM18SG331TN1D @ 0603 | 330 Ferrite bead. MURATA BLM18 490-3997-1-ND |
| 34 | 16 | C33, C34, C35, C36, C41, C51, C52, C53, C57, C61, C66, C69, C72, C74, C89, C105 | CL05A475MQ5NRNC @ 0402 | 4.7uF Capacitors. 0402 C 1276-1056-1-ND |
| 35 | 1 | U11 | DAC101C081CIMK/NOPB @ SO | IC DAC101C081 10-bit DAC from TI. http //www.ti.co |
| 36 | 1 | Y2 | DS1088LU-100+ @ GW-08-.6 | 100MHz MAXIM DS1088L Fixed frequency EconOscillato |

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|------|-------|---|---------------------------|--|
| 37 | 1 | C6 | ECASD91B107M012K00 @ CAP | 100uF Polarized capacitors. 2917 MURATA CAP 490-54 |
| 38 | 2 | R53, R54 | ERA-2AEB101X @ 0402 | =LAYOUT= 100 0.1% RESISTOR, American symbol R0402 |
| 39 | 2 | R9, R59 | ERJ-1GNJ472C @ 0201 | 4.7k RESISTOR, American symbol R0201 P4.7AECT-ND |
| 40 | 1 | U14 | FT230XQ-R @ QFN-16-.65-4 | FT230XQ USB to BASIC UART IC QFN16 768-1130-1-ND |
| 41 | 1 | U8 | LMH6555SQ/NOPB @ QFN-16- | LMH6555 LMH6555 is a low distortion 1.2 GHz differ |
| 42 | 1 | U9 | LMV321IDCKR @ GW-05-.65- | IC LMV321SC-70 LMV321 Low Voltage Rail-to-rail op |
| 43 | 2 | D1, D4 | LNJ237W82RACT-ND @ LED-0 | LED 0603 RED LED. 0603 LED |
| 44 | 1 | U6 | LT1963AEQ#PBF @ TAB-05-1 | LT1963AEQ LT1963 1.5A, Low Noise, Fast Transient R |
| 45 | 1 | U4 | LT1963AEST-2.5#PBF @ SOT | IC LT1963AEST-2.5 LT1963A Series LDO in a 3 Lead S |
| 46 | 1 | U5 | LT1963AEST-3.3#PBF @ SOT | IC LT1963AEST-3.3 LT1963A Series LDO in a 3 Lead S |
| 47 | 1 | U3 | LTC2955CDDDB-1#TRMPBF @ L | LTC2955-1 Pushbutton On/Off Controller with Automa |
| 48 | 2 | D3, D5 | LTST-C193KGKT-5A @ LED-0 | LED 0603 GREEN LED. 0603 LED 160-1828-1-ND |
| 49 | 2 | D2, D6 | LTST-C193TBKT-5A @ LED-0 | LED 0603 BLUE LED. 0603 LED 160-1827-1-ND |
| 50 | 1 | R15 | P113KABCT-ND @ 0201 | 113k RESISTOR, American symbol R0201 |
| 51 | 3 | C24, C25, C26 | P16231CT-ND @ 0805-POL | =POLARITY=22uF 150mOhm ESR CAPACITOR, American sym |
| 52 | 3 | R18, R28, R33 | P210KABCT-ND @ 0201 | 210K RESISTOR, American symbol R0201 |
| 53 | 2 | R27, R37 | P270KABCT-ND @ 0201 | 270k RESISTOR, American symbol R0201 |
| 54 | 1 | R22 | P280KABCT-ND @ 0201 | 280K RESISTOR, American symbol R0201 |
| 55 | 1 | R7 | P3.3KDBCT-ND @ 0603 | 3.3k 0.1% RESISTOR, American symbol R0603 |
| 56 | 1 | R36 | P442KABCT-ND @ 0201 | 442K RESISTOR, American symbol R0201 |
| 57 | 9 | R10, R13, R14, R16, R17, R20, R23, R24, R25 | P523KABCT-ND @ 0201 | 523K RESISTOR, American symbol R0201 |
| 58 | 2 | R11, R34 | P649KABCT-ND @ 0201 | 649K RESISTOR, American symbol R0201 |
| 59 | 1 | R32 | P806KABCT-ND @ 0201 | 806K RESISTOR, American symbol R0201 |
| 60 | 1 | R35 | P845KABCT-ND @ 0201 | 845k RESISTOR, American symbol R0201 |
| 61 | 8 | R3, R5, R8, R21, R41, R43, R44, R47 | RC0603J103CS @ 0201 | 10k RESISTOR, American symbol R0201 1276-3817-1-ND |
| 62 | 13 | R38, R45, R48, R49, R55, R56, R57, R62, R63, R64, R65, R66, R67 | RC0603J331CS @ 0201 | 330 RESISTOR, American symbol R0201 1276-3787-1-ND |
| 63 | 1 | R29 | RC1608F1151CS @ 0603 | 1.15k 1% RESISTOR, American symbol R0603 1276-4649 |
| 64 | 1 | R30 | RC1608F202CS @ 0603 | 2k 1% RESISTOR, American symbol R0603 1276-3495-1- |
| 65 | 1 | R31 | RC1608J101CS @ 0603 | 100 RESISTOR, American symbol R0603 1276-5038-1-ND |

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|----|---|-----|-----------------------------|--|
| 66 | 1 | U7 | TC3374EUHF#PBF @ QFN-38- | LTC3374QFN LTC3374 8-Channel 1A Buck DC-DC Regulat |
| 67 | 1 | U10 | TMP421AIDCNT @ GW-08-.65 | TMP421 Remote and local temperature sensor /- 1C f |
| 68 | 1 | U2 | XC6SLX9-3TQG144C @ QFP-1 | IC XC6SLX9-3TQG144C Xilinx Spartan 6 LX9 FPGA in t |
| 69 | 1 | U13 | XCF04SVOG20C @ GW-20-.65 | IC XCFXXS04 XCFxxS Xilinx Program Flash. TSSOP20 X |