

| Designator | Footprint        | Comment  | Quantity |
|------------|------------------|----------|----------|
| C1         | C 0603 1608      | 12pF     | 1        |
| C10        | C 0603 1608      | 100nF    | 1        |
| C11        | C 0603 1608      | 100nF    | 1        |
| C12        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C13        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C14        | C 0603 1608      | 100nF    | 1        |
| C15        | C 0603 1608      | 100nF    | 1        |
| C16        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C17        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C18        | C 0603 1608      | 100nF    | 1        |
| C19        | C 0603 1608      | 150pF    | 1        |
| C2         | C 0603 1608      | 12pF     | 1        |
| C20        | C 0805 2012      | 10uF     | 1        |
| C21        | C 0805 2012      | 10uF     | 1        |
| C22        | C 0603 1608      | 100nF    | 1        |
| C23        | C 0603 1608      | 18pF     | 1        |
| C24        | C 0603 1608      | 18pF     | 1        |
| C25        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C26        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C27        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C28        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C29        | SMD-RVT-6. 3X7mm | 100uF    | 1        |
| C3         | C 0603 1608      | 100nF    | 1        |
| C30        | C 0805 2012      | 10uF     | 1        |
| C31        | C 0805 2012      | 10uF     | 1        |
| C32        | C 0805 2012      | 10uF     | 1        |
| C33        | C 0603 1608      | 100nF    | 1        |
| C34        | C 0603 1608      | 100nF    | 1        |
| C35        | C 0603 1608      | 100nF    | 1        |
| C36        | C 0603 1608      | 100nF    | 1        |
| C37        | C 0603 1608      | 100nF    | 1        |
| C38        | C 0603 1608      | 100nF    | 1        |
| C39        | C 0603 1608      | 100nF    | 1        |
| C4         | C 0805 2012      | 10uF     | 1        |
| C40        | C 0603 1608      | 100nF    | 1        |
| C5         | C 0603 1608      | 100nF    | 1        |
| C6         | C 0603 1608      | 100nF    | 1        |
| C7         | C 0603 1608      | 100nF    | 1        |
| C8         | C 0603 1608      | 100nF    | 1        |
| C9         | C 0603 1608      | 100nF    | 1        |
| D1         | LED 0603 1608    | BLUE     | 1        |
| D10        | LED 0603 1608    | LED Red  | 1        |
| D11        | LED 0603 1608    | LED Red  | 1        |
| D12        | LED 0603 1608    | LED Red  | 1        |
| D13        | LED 0603 1608    | LED Red  | 1        |
| D14        | LED 0603 1608    | LED Red  | 1        |
| D2         | LED 0603 1608    | BLUE     | 1        |
| D3         | LED 0603 1608    | BLUE     | 1        |
| D4         | LED 0603 1608    | BLUE     | 1        |
| D5         | D-SMA            | S1G-13-F | 1        |

|     |                |                  |   |
|-----|----------------|------------------|---|
| D6  | D-SMA          | S1A-13-F         | 1 |
| D7  | D-SMA          | B340A-13-F       | 1 |
| D8  | D-SMA          | SS12             | 1 |
| D9  | LED 0603 1608  | RED              | 1 |
| F1  | F 1206 3216    | 30A              | 1 |
| F2  | F 1206 3216    | 15A              | 1 |
| F3  | F 1812         | 1A               | 1 |
| F4  | F 1812         | 500mA            | 1 |
| L1  | L-7x7x4mm      | 15uH/3A          | 1 |
| L2  | L 0805 2012    | BLM21            | 1 |
| M1  | FIDUCIAL-1X1mm | FID              | 1 |
| M2  | FIDUCIAL-1X1mm | FID              | 1 |
| M3  | FIDUCIAL-1X1mm | FID              | 1 |
| M9  | Makerbase-R    | LOGO-MAKERBASE-R | 1 |
| Q1  | SOT-23         | FDN340P          | 1 |
| Q2  | SOT-23         | SS8050           | 1 |
| Q3  | SOT-23         | SS8050           | 1 |
| R10 | R 0603 1608    | 100K             | 1 |
| R11 | R 0603 1608    | 24. 9K           | 1 |
| R12 | R 0603 1608    | 100K             | 1 |
| R13 | R 0603 1608    | 4. 7K            | 1 |
| R14 | R 0603 1608    | 1. 5K            | 1 |
| R15 | R 0603 1608    | 33               | 1 |
| R16 | R 0603 1608    | 33               | 1 |
| R17 | R 0603 1608    | 10               | 1 |
| R18 | R 0603 1608    | 10K              | 1 |
| R19 | R 0603 1608    | 10K              | 1 |
| R2  | R 0603 1608    | 10K              | 1 |
| R20 | R 0603 1608    | 10K              | 1 |
| R24 | R 0603 1608    | 10K              | 1 |
| R25 | R 0603 1608    | 10K              | 1 |
| R28 | R 0603 1608    | 4. 7K            | 1 |
| R29 | R 0603 1608    | 100/ $\pm 1\%$   | 1 |
| R3  | R 0603 1608    | 1M               | 1 |
| R30 | R 0603 1608    | 4. 7K            | 1 |
| R31 | R 0603 1608    | 100/ $\pm 1\%$   | 1 |
| R32 | R 0603 1608    | 4. 7K            | 1 |
| R33 | R 0603 1608    | 100/ $\pm 1\%$   | 1 |
| R34 | R 0603 1608    | 4. 7K            | 1 |
| R35 | R 0603 1608    | 4. 7K            | 1 |
| R36 | R 0603 1608    | 4. 7K            | 1 |
| R37 | R 0603 1608    | 1K/ $\pm 1\%$    | 1 |
| R38 | R 0603 1608    | 1K/ $\pm 1\%$    | 1 |
| R39 | R 0603 1608    | 1K/ $\pm 1\%$    | 1 |
| R4  | R 0603 1608    | 4. 7K            | 1 |
| R40 | R 0603 1608    | 4. 7K            | 1 |
| R41 | R 0603 1608    | 4. 7K            | 1 |
| R42 | R 0603 1608    | 4. 7K            | 1 |
| R43 | R 0603 1608    | 1K/ $\pm 1\%$    | 1 |
| R44 | R 0603 1608    | 1K/ $\pm 1\%$    | 1 |
| R45 | R 0603 1608    | 1K/ $\pm 1\%$    | 1 |

|       |                     |                  |   |
|-------|---------------------|------------------|---|
| R46   | R 0603 1608         | 100/±1%          | 1 |
| R47   | R 0603 1608         | 100/±1%          | 1 |
| R48   | R 0603 1608         | 100/±1%          | 1 |
| R5    | R 0603 1608         | 4.7K             | 1 |
| R6    | R 0603 1608         | 10K              | 1 |
| R66   | R 0603 1608         | 100/±1%          | 1 |
| R67   | R 0603 1608         | 4.7K             | 1 |
| R68   | R 0603 1608         | 100K             | 1 |
| R7    | R 0603 1608         | 100K             | 1 |
| R8    | R 0603 1608         | 210K             | 1 |
| R9    | R 0603 1608         | 40.2K            | 1 |
| RPK1  | R 0603 X4           | 100              | 1 |
| RPK10 | R 0603 X4           | 4.7K             | 1 |
| RPK11 | R 0603 X4           | 4.7K             | 1 |
| RPK2  | R 0603 X4           | 100              | 1 |
| RPK3  | R 0603 X4           | 100              | 1 |
| RPK4  | R 0603 X4           | 100              | 1 |
| RPK5  | R 0603 X4           | 100              | 1 |
| RPK6  | R 0603 X4           | 100              | 1 |
| RPK7  | R 0603 X4           | 10K              | 1 |
| RPK8  | R 0603 X4           | 100              | 1 |
| RPK9  | R 0603 X4           | 100K             | 1 |
| S1    | SW-TS42-SMD-5P      | SW-TS42-5P       | 1 |
| U1    | FP-100 14x14mm P0.5 | LPC1769          | 1 |
| U2    | SOIC8               | AT24CS16-SSHM    | 1 |
| U4    | SOT-223             | NCP1117ST33T3G   | 1 |
| U5    | TSSOP14             | 74HC125PW        | 1 |
| Y1    | XTAL-5032-SMD-4P    | 12MHz            | 1 |
| Z1    | R 0603 1608         | CG0603MLC-05E    | 1 |
| Z2    | R 0603 1608         | CG0603MLC-05E    | 1 |
| Z3    | R 0603 1608         | CG0603MLC-05E    | 1 |
| M8    | Makerbase-TOP       | LOGO-MAKERBASE   | 1 |
| AUX-1 | IDC-2.54-2X4PA      | IDC-2.54-2X4PA   | 1 |
| EXP1  | IDC-2.54-2X5P       | IDC-2.54-2X5P    | 1 |
| EXP2  | IDC-2.54-2X5P       | IDC-2.54-2X5P    | 1 |
| J1    | HDR-2.54-1X2P       | Header-2.54-1X2P | 1 |
| J10   | XH2.54-4P           | XH2.54-4P        | 1 |
| J11   | HDR-2.54-2X4P       | 2.54-2X4P        | 1 |
| J12   | XH2.54-4P           | XH2.54-4P        | 1 |
| J13   | HDR-2.54-2X4P       | 2.54-2X4P        | 1 |
| J14   | XH2.54-4P           | XH2.54-4P        | 1 |
| J15   | DRIVE DIP16         | DIRVE-DIP16      | 1 |
| J16   | DRIVE DIP16         | DIRVE-DIP16      | 1 |
| J17   | DRIVE DIP16         | DIRVE-DIP16      | 1 |
| J18   | HDR-2.54-1X4P       | Header-2.54-1X4P | 1 |
| J19   | HDR-2.54-1X3P       | Header-2.54-1X3P | 1 |
| J2    | HDR-2.54-2X3P       | Header-2.54-2X3P | 1 |
| J20   | HDR-2.54-1X4P       | Header-2.54-1X4P | 1 |
| J21   | HDR-2.54-1X3P       | Header-2.54-1X3P | 1 |
| J22   | HDR-2.54-1X4P       | Header-2.54-1X4P | 1 |
| J23   | HDR-2.54-1X3P       | Header-2.54-1X3P | 1 |

|     |                 |                   |   |
|-----|-----------------|-------------------|---|
| J24 | HDR-2. 54-2X4P  | 2. 54-2X4P        | 1 |
| J25 | XH2. 54-4P      | XH2. 54-4P        | 1 |
| J26 | HDR-2. 54-2X4P  | 2. 54-2X4P        | 1 |
| J27 | XH2. 54-4P      | XH2. 54-4P        | 1 |
| J28 | DRIVE DIP16     | DIRVE-DIP16       | 1 |
| J29 | DRIVE DIP16     | DIRVE-DIP16       | 1 |
| J3  | HDR-2. 54-1X2P  | Header-2. 54-1X2P | 1 |
| J30 | HDR-2. 54-1X3P  | Header-2. 54-1X3P | 1 |
| J31 | HDR-2. 54-1X4P  | Header-2. 54-1X4P | 1 |
| J32 | HDR-2. 54-1X3P  | Header-2. 54-1X3P | 1 |
| J33 | HDR-2. 54-1X4P  | Header-2. 54-1X4P | 1 |
| J34 | HDR-2. 54-1X3P  | Header-2. 54-1X3P | 1 |
| J35 | HDR-2. 54-1X4P  | Header-2. 54-1X4P | 1 |
| J38 | XH2. 54-3P      | XH2. 54-3P        | 1 |
| J39 | XH2. 54-3P      | XH2. 54-3P        | 1 |
| J4  | HG129-5. 0-2P   | HG129-5. 0-2P     | 1 |
| J40 | XH2. 54-3P      | XH2. 54-3P        | 1 |
| J41 | XH2. 54-3P      | XH2. 54-3P        | 1 |
| J42 | XH2. 54-3P      | XH2. 54-3P        | 1 |
| J43 | XH2. 54-3P      | XH2. 54-3P        | 1 |
| J44 | HDRS-2. 54-1X2P | Header-2. 54-1X2P | 1 |
| J45 | HDRS-2. 54-1X2P | Header-2. 54-1X2P | 1 |
| J46 | HDR-2. 54-2X5P  | Header-2. 54-2X5P | 1 |
| J47 | HDRS-2. 54-1X2P | Header-2. 54-1X2P | 1 |
| J48 | HDRS-2. 54-1X2P | Header-2. 54-1X2P | 1 |
| J49 | HDRS-2. 54-1X2P | Header-2. 54-1X2P | 1 |
| J5  | XH2. 54-2P      | XH2. 54-2P        | 1 |
| J50 | HDR-2. 54-2X3P  | Header-2. 54-2X3P | 1 |
| J51 | XH2. 54-2P      | XH2. 54-2P        | 1 |
| J52 | XH2. 54-2P      | XH2. 54-2P        | 1 |
| J53 | EG302-5. 0mm-4P | EG301-5. 0-4P     | 1 |
| J54 | HG129-5. 0-2P   | HG129-5. 0-2P     | 1 |
| J55 | HDR-2. 54-2X4P  | 2X4P              | 1 |
| J6  | XH2. 54-2P      | XH2. 54-2P        | 1 |
| J7  | USB-B-TYPE      | USB               | 1 |
| J8  | HDR-2. 54-2X4P  | 2. 54-2X4P        | 1 |
| J9  | XH2. 54-4P      | XH2. 54-4P        | 1 |
| Q4  | TO-252          | HY1403            | 1 |
| Q5  | TO-252          | HY1403            | 1 |
| Q6  | TO-252          | HY3403D           | 1 |
| SD1 | MICROSD         | MicroSD           | 1 |
| TB1 | XH2. 54-2P      | XH2. 54-2P        | 1 |
| TH1 | XH2. 54-2P      | XH2. 54-2P        | 1 |
| TH2 | XH2. 54-2P      | XH2. 54-2P        | 1 |
| U3  | SOIC8E          | MP1584EN          | 1 |