

PCM1864CMB

| Designator | Quantity | Value | Description | PackageReference | PartNumber | Manufacturer | Alternate PartNumber | Alternate Manufacturer |
|--|----------|-------|---|--|--------------------|-----------------------------|----------------------|------------------------|
| IPC81 | 1 | | Printed Circuit Board | | TIDA-01454 | Any | - | - |
| C1, C2, C3, C4, C5, C6, C7, C17, C23, C25, C29, C31, C37, C39 | 14 | 0.1uF | CAP, CERM, 0.1 µF, 16 V, +/- 10%, X7R, 0603 | 0603 | GRM188R71C104KA01D | MuRata | | |
| C8, C9, C10, C11, C12, C13, C14, C15, C16, C18, C19, C20, C21, C22, C30, C32, C33, C34, C35, C36 | 20 | 10uF | CAP, CERM, 10 µF, 10 V, +/- 10%, X7R, 0805 | 0805 | GRM21BR71A106KE51K | MuRata | | |
| C24, C26, C38, C40 | 4 | 1uF | CAP, CERM, 1 µF, 16 V, +/- 10%, X7R, 0603 | 0603 | GRM188R71C105KA12D | MuRata | | |
| C27, C28 | 2 | 18pF | CAP, CERM, 18 pF, 50 V, +/- 5%, C0G/NP0, 0603 | 0603 | GRM1885C1H180JA01D | MuRata | | |
| D1 | 1 | Green | LED, Green, SMD | LED_0805 | LTST-C171GKT | Lite-On | | |
| D2, D3 | 2 | Blue | LED, Blue, SMD | Blue LED | SMLP12BC7TT86 | Rohm | | |
| H1, H2, H3, H4 | 4 | | MACHINE SCREW PAN PHILLIPS M3 5mm | Screw M3 Phillips head | MPMS 003 0005 PH | B&F Fastener Supply | | |
| H5, H6, H7, H8 | 4 | | Standoff, Hex, 25mm Length, M3, Aluminum | Standoff M3 | 24438 | Keystone | | |
| H9 | 1 | | CBL012 Cable Assembly | CBL012 | CBL012 | Used in BOM report | - | - |
| J2, J4, J7, J8 | 4 | | Header, 100mil, 2x1, Gold, TH | Sullins 100mil, 1x2, 230 mil above insulator | PBC02SAAN | Sullins Connector Solutions | | |
| J3 | 1 | | Receptacle, 100mil, 8x2, Gold, R/A, TH | Header, 8x2, 2.54mm, R/A | PPPC082LJBN-RC | Sullins Connector Solutions | | |
| J5 | 1 | | Header, 100mil, 10x2, Gold, TH | 10x2 Header | TSW-110-07-G-D | Samtec | | |
| J6 | 1 | | Header, 2.54mm, 2x2, Gold, TH | Header, 2.54mm, 2x2, TH | PBC02DAAN | Sullins Connector Solutions | | |
| MIC1, MIC2, MIC3, MIC4, MIC5, MIC6, MIC7, MIC8 | 8 | | Wide Bandwidth, Low Noise, Precision Top Port SiSonic Microphone, SMD | 3.5x2.65mm | SPH1642HT5H-1 | Knowles Acoustics | | |
| Q1, Q2 | 2 | 40 V | Transistor, NPN, 40 V, 0.15 A, SOT-23 | SOT-23 | MMBT2222A | Fairchild Semiconductor | | |
| R1, R2, R3, R4, R6, R7, R8, R9, R10, R11, R12, R13, R16, R17, R19, R21, R40, R41, R42, R43, R45, R46, R49, R50, R51, R52, R54, R55, R56, R57, R59, R60, R61, R62 | 34 | 49.9 | RES, 49.9, 1%, 0.063 W, 0402 | 0402 | RC0402FR-0749R9L | Yageo America | | |
| R5 | 1 | 10.0k | RES, 10.0 k, 1%, 0.1 W, 0603 | 0603 | ERJ-3EKF1002V | Panasonic | | |
| R14, R15, R27, R28, R29, R30, R36, R37, R38, R39 | 10 | 2.21k | RES, 2.21 k, 1%, 0.063 W, 0402 | 0402 | CRCW04022K21FKED | Vishay-Dale | | |
| R18 | 1 | 360 | RES, 360, 5%, 0.063 W, 0402 | 0402 | CRCW0402360RJNED | Vishay-Dale | | |
| R20, R53 | 2 | 100 | RES, 100, 1%, 0.1 W, 0402 | 0402 | ERJ-2RKF1000X | Panasonic | | |
| R22, R23, R24, R25, R26, R31, R32, R33, R34, R35, R44, R48 | 12 | 0 | RES, 0, 5%, 0.1 W, 0603 | 0603 | CRCW06030000Z0EA | Vishay-Dale | | |
| R47, R58 | 2 | 2.15k | RES, 2.15 k, 1%, 0.063 W, 0402 | 0402 | CRCW04022K15FKED | Vishay-Dale | | |
| SH1, SH2, SH3, SH4 | 4 | 1x2 | Shunt, 100mil, Gold plated, Black | Shunt | SNT-100-BK-G | Samtec | 969102-0000-DA | 3M |
| TP1, TP2 | 2 | | Test Point, 50x20mils, TH | Purple Multipurpose Testpoint | 5129 | Keystone | | |

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| TP3, TP4, TP5, TP6, TP7, TP8, TP9, TP10, TP11, TP12, TP13, TP14, TP15, TP16, TP17, TP18, TP19, TP20, TP21, TP22, TP23, TP24, TP25, TP26, TP27, TP28, TP29, TP30, TP31, TP32, TP33, TP34, TP35, TP36, TP37, TP38, | 52 | | Test Point, 50x30mils, TH | Purple Multipurpose Testpoint | 5129 | Keystone | | |
| U1, U2 | 2 | | Universal Microphone to 2VRMS Analog input, 24-Bit, 192 kHz Stereo Front-End, DBT0030A | DBT0030A | PCM1864DBTR | Texas Instruments | PCM1864DBT | Texas Instruments |
| U3, U5, U7 | 3 | | Single Bus Buffer Gate With 3-State Output, DCK0005A | DCK0005A | SN74LVC1G125DCKR | Texas Instruments | SN74LVC1G125DCKT | Texas Instruments |
| U4, U6, U8 | 3 | | Single Bus Buffer Gate With 3-State Output, DCK0005A | DCK0005A | SN74LVC1G126DCKR | Texas Instruments | SN74LVC1G126DCKT | Texas Instruments |
| Y1 | 1 | | Crystal, 24.576MHz, 18 pF, TH | 11.5x5mm | 9B-24.576MEEJ-B | TXC Corporation | | |
| FID1, FID2, FID3 | 0 | | Fiducial mark. There is nothing to buy or mount. | Fiducial | N/A | N/A | | |
| J1 | 0 | | Header, 100mil, 4x2, Tin, TH | Header, 4x2, 100mil, Tin | PEC04DAAN | Sullins Connector Solutions | | |

Notes:
 Unless otherwise noted in the Alternate PartNumber and/or Alternate Manufacturer columns, all parts may be substituted with equivalents.