

Filename: TIDA-00290-BOM-Daughterboard-PWR613A.xls
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TPS23861EVM-613 (TIDA-00290 Daughter Board)

| Designator | Quantity | Value | Description | PackageReference | PartNumber | Manufacturer | Alternate PartNumber | Alternate Manufacturer |
|--|----------|-------|--|----------------------------|--------------------|-------------------------|----------------------|------------------------|
| !PCBA? | 1 | | Update Description to match PCBA's description | N/A | PWR613A | Any | | |
| C1, C3 | 2 | 0.1uF | CAP, CERM, 0.1uF, 50V, +/-10%, X7R, 0603 | 0603 | 06035C104KAT2A | AVX | | |
| C2, C4, C5, C6, C7, C8, C9, C10, C11, C12 | 10 | 0.1uF | CAP, CERM, 0.1uF, 100V, +/-10%, X7R, 0805 | 0805 | C2012X7R2A104K | TDK | | |
| C13 | 1 | 1uF | CAP, CERM, 1uF, 100V, +/-10%, X7R, 1206 | 1206 | GRM31CR72A105KA01L | MuRata | | |
| D1, D3, D5, D7, D9, D11, D13, D15 | 8 | 58V | Diode, TVS, Uni, 58V, 600W, SMB | SMB | SMBJ58A-13-F | Diodes Inc. | | |
| F1, F2, F3, F4, F5, F6, F7, F8 | 8 | | Fuse, 1.5A, 63V, SMD | 1206 | C1S 1.5 | Bel Fuse | | |
| J1, J2, J3 | 3 | | Header, TH, 100mil, 10x1, Gold plated, 230 mil above insulator | TSW-110-07-G-S | TSW-110-07-G-S | Samtec, Inc. | | |
| Q1, Q2, Q3, Q4, Q5, Q6, Q7, Q8 | 8 | 100V | MOSFET, N-CH, 100V, 3.3A, 3.3x1x3.3mm | 3.3x1x3.3mm | FDMC3612 | Fairchild Semiconductor | | None |
| R1, R2, R7, R8, R9, R10, R15, R16 | 8 | 22.1 | RES, 22.1 ohm, 1%, 0.1W, 0603 | 0603 | CRCW060322R1FKEA | Vishay-Dale | | |
| R3, R4, R5, R6, R11, R12, R13, R14 | 8 | 47 | RES, 47 ohm, 5%, 0.1W, 0603 | 0603 | CRCW060347R0JNEA | Vishay-Dale | | |
| R17, R18, R19, R20, R21, R22, R23, R24, R25, R26, R27, R28, R29, R30, R31, R32 | 16 | 0.51 | RES, 0.51 ohm, 1%, 0.25W, 0805 | 0805 | CRM0805-FX-R510ELF | Bourns | | |
| R33, R34, R35, R36, R37, R38, R39, R41 | 8 | 0 | RES, 0 ohm, 5%, 0.1W, 0603 | 0603 | CRCW06030000Z0EA | Vishay-Dale | | |
| TP1 | 1 | Black | Test Point, Multipurpose, Black, TH | Keystone5011 | 5011 | Keystone | | |
| TP4, TP6, TP10 | 3 | Red | Test Point, Miniature, Red, TH | Keystone5000 | 5000 | Keystone | | |
| TP5, TP9, TP12 | 3 | White | Test Point, Miniature, White, TH | Keystone5002 | 5002 | Keystone | | |
| TP8 | 1 | SMT | Test Point, Compact, SMT | Testpoint_Keystone_Compact | 5016 | Keystone | | |
| U1, U2 | 2 | | QUAD IEEE 802.3at POWER-OVER-ETHERNET PSE CONTROLLER, PW0028A | PW0028A | TPS23861PW | Texas Instruments | | None |
| D2, D4, D6, D8, D10, D12, D14, D16 | 0 | 0.68V | Diode, Schottky, 100V, 1.5A, SMA | SMA | 10MQ100NTRPBF | International Rectifier | | |
| R40 | 0 | 0 | RES, 0 ohm, 5%, 0.1W, 0603 | 0603 | CRCW06030000Z0EA | Vishay-Dale | | |

Notes:

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

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