

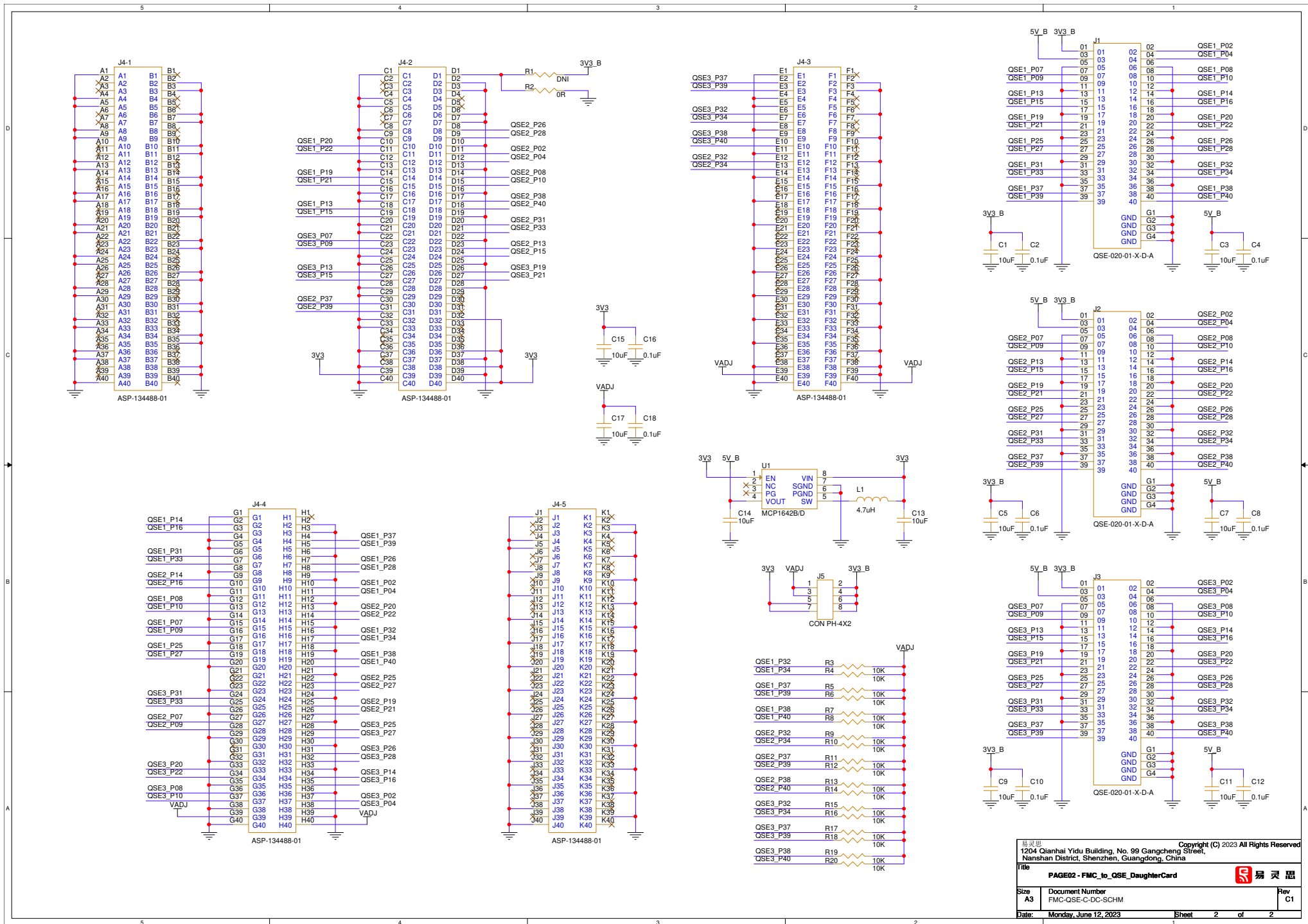
# FMC-to-QSE Adapter Card (Rev. C)

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## REVISION HISTORY

| REV | DATE       | EDITOR  | DESCRIPTION   |
|-----|------------|---------|---|
| 0.1 | 04/07/2022 | CFLEUNG | Initial release   |
| 1.0 | 10/10/2022 | CFLEUNG | Official release  |
| 2.0 | 11/11/2022 | CFLEUNG | Rev C1 release<br>- Rename IC1 to U1<br>- Remove C15, C16, C19 from VADJ<br>- Add C15, C16 to 3V3<br>- Change C13, C14, C15 to 10uF C0603 |
| 2.1 | 13/06/2023 | CFLEUNG | Rev C2 release<br>- Generalize All Net Names  |





| Item | Part Type | Description   | Value            | Reference  | Footprint            | Mfr. PN          | Quantity |
|------|-----------|---|------------------|--|----------------------|------------------|----------|
| 1    | CAPACITOR | X5R, 10%, 16V   | 10uF             | C1,C3,C5,C7,C9,C11,C13,C14,C15,C17                               | C0603                |                  | 10       |
| 2    | CAPACITOR | X5R, 10%, 50V   | 0.1uF            | C2,C4,C6,C8,C10,C12,C16,C18                                      | C0402                |                  | 8        |
| 3    | CONNECTOR | 0.80 mm Q Strip® High-Speed Ground Plane Socket Strip                         | QSE-020-01-X-D-A | J1,J2,J3   | QSE-020-01-X-D-A     | QSE-020-01-F-D-A | 3        |
| 4    | CONNECTOR | Board to Board & Mezzanine Connectors .050 PITCH TERMINAL ARRAY ASSEMBLY MALE | ASP-134488-01    | J4   | SAMTEC_ASP-134488-01 | ASP-134488-01    | 1        |
| 5    | CONNECTOR |   | CON PH-4X2       | J5   |                      |                  | 1        |
| 6    | INDUCTOR  | Low Profile Hight Current SMT Shielded Power Inductor                         | 4.7uH            | L1   | TYA2520              | TYA2520124R7M-10 | 1        |
| 7    | RESISTOR  | 1%, 0.125W  | DNI              | R1   | R0402                |                  | 1        |
| 8    | RESISTOR  | 1%, 0.125W  | 0R               | R2   | R0402                |                  | 1        |
| 9    | RESISTOR  | 1%, 0.125W  | 10K              | R3,R4,R5,R6,R7,R8,R9,R10,R11,R12,R13,R14,R15,R16,R17,R18,R19,R20 | R0402                |                  | 18       |
| 10   |           | Switching Voltage Regulators Step-up DC/DC Reg 1 MHz, 1.6A, 5Vout             | MCP1642B/D       | U1   | SOP65P490X110-8N     | MCP1642B/D       | 1        |



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